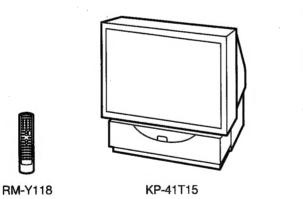
### **SERVICE MANUAL**

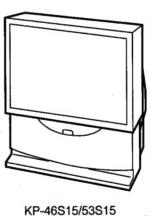
RA-1 **CHASSIS** 

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-41T15	RM-Y118	us	SCC-H53A-A	KP-53S15	RM-Y118	us	SCC-H53C-A
KP-41T15	RM-Y118	CND	SCC-H58A-A	KP-53S15	RM-Y118	CND	SCC-H58C-A
KP-46S15	RM-Y118	us	SCC-H53B-A				
KP-46S15	RM-Y118	CND	SCC-H58B-A			,	
				·			
			:				

<sup>1.</sup> Adjustment Manual for this model is separately published.

	Adjustment Manual
Part No.	9-965-043-01







**COLOR REAR VIDEO PROJECTOR** SONY

### KP-41T15/46S15/53S15 RM-Y118 RM-Y118 RM-Y118



Les composants identifies par une trame et une marque Å sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

-													
	REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
		<c011< td=""><td>.&gt;</td><td></td><td></td><td></td><td>R1616</td><td>1-214-673-00 1-214-673-00 1-214-673-00</td><td>METAL METAL METAL</td><td>4.7 4.7 4.7</td><td>1% 1 1% 1 1% 1</td><td>/4W /4W /4W</td><td></td></c011<>	.>				R1616	1-214-673-00 1-214-673-00 1-214-673-00	METAL METAL METAL	4.7 4.7 4.7	1% 1 1% 1 1% 1	/4W /4W /4W	
	L1502 L1503 L1515	1-412-524-11 1-410-470-11	INDUCTOR				R1620 R1621 R1622 R1623	1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00 1-214-729-00	METAL Metal	4.7 4.7 4.7	1% 1 1% 1	/4W /4W /4W /4W	
	L1801 L1802	1-406-975-21 1-406-975-21	INDUCTOR 10UH COIL, CHOKE 47UH COIL, CHOKE 47UH				R1624 R1625 R1626 R1627 R1628	1-214-729-00 1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00	METAL METAL METAL	1K 4.7 4.7 4.7 4.7	1% 1% 1%	/4W  /4W  /4W  /4W  /4W	
		<trai< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R1629</td><td>1-214-673-00</td><td>METAL</td><td>4.7</td><td>1%</td><td>[/4W</td><td></td></trai<>	NSISTOR>				R1629	1-214-673-00	METAL	4.7	1%	[/4W	
	Q1501 Q1502 Q1551 Q1552 Q1701	8-729-120-28 8-729-120-28 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L	5L6 5L6 5L6 5L6			R1630 R1631 R1632 R1633	1-214-673-00 1-214-729-00 1-214-673-00 1-214-673-00	METAL METAL METAL METAL METAL	4.7 1K 4.7 4.7	1% 1% 1%	1/4W 1/4W 1/4W 1/4W	
	Q1801 Q1802 Q1803 Q1804 Q1805	8-729-120-28 8-729-216-22 8-729-900-36 8-729-120-28	TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SC1623-L TRANSISTOR 2SA1162-G TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR DTC124ES	5L6 5L6			R1634 R1635 R1636 R1637 R1638	1-214-729-00 1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00	METAL METAL METAL METAL METAL	1K 4.7 4.7 4.7	1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
	41003	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td>R1641</td><td>1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00</td><td>METAL</td><td>4.7 4.7 4.7 4.7</td><td>1% 1%</td><td>1/4W 1/4W 1/4W 1/4W</td><td></td></res<>	ISTOR>				R1641	1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00	METAL	4.7 4.7 4.7 4.7	1% 1%	1/4W 1/4W 1/4W 1/4W	
	R1501	1-216-049-00	METAL GLAZE 1K	5% 1	/10W		R1643	L1-202-967-91	FUSTBLE		iôx	1/6₩	
	R1502 R1504 R1505 R1506	1-216-085-00 1-216-049-00	METAL GLAZE 22K METAL GLAZE 33K METAL GLAZE 1K	5% 1 5% 1	1/10W 1/10W 1/10W		11645/ 11646/ 11647/	N 1-202-967-91 N 1-202-967-91 N 1-202-967-91	FUSTBLE FUSTBLE	0.1 0.1 0.1	10X 10X	1/6W 1/6W 1/6W 1/6W	
	R1508	1-208-814-11 1-216-057-00	METAL GLAZE 2.2K	0.50% 1 5% 1	1/10W			<u> </u>		0.1		1/64	
	R1510	1-214-671-91	METAL 3.9	1%	1/4W	F	R1721	1-216-033-00 1-216-033-00	METAL GLAZE	220	5%	1/10W 1/10W	
		1-214-671-71			1/4W		R1740		METAL GLAZE	220 100	5%	1/10W 1/10W	
	R1513 R1514 R1515	1-215-914-11 1-214-671-71 1-216-632-11 1-216-639-11 1-214-671-71	METAL CHIP 160 METAL CHIP 330	1% 0.50% 0.50%	1/10W	F	R1749 R1751 R1752	1-216-033-00 1-216-295-00 1-216-081-00 1-216-073-00 1-216-295-00	CONDUCTOR, CHARTAL GLAZE METAL GLAZE CONDUCTOR, CH	22K 10K 11P	5% 5%	1/10W 1/10W 1/10W	
	R1517 R1518	1-216-647-11 1-216-665-11	METAL CHIP 680 METAL CHIP 3.9K	0.50%	1/10W 1/10W		R1788	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
	R1519/ R1520/ R1521 R1522	1-249-385-91 1-249-385-91 1-216-049-00 1-216-049-00	CARBON 2.2 CARBON 2.2 METAL GLAZE 1K METAL GLAZE 1K	5% 5% 5%	1/4W 1/10W 1/10W		R1801 R1802 R1803 R1804 R1805	1-216-049-00 1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 10K 2.2K 6.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R1523 R1551 R1552 R1553	1-216-077-00	METAL GLAZE 220 METAL GLAZE 22K METAL GLAZE 3.9K METAL GLAZE 15K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	*	R1806 R1807 R1808 R1809 R1810	1-216-075-00 1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 12K 1K 22K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R1554 R1559 R1562 R1603 R1604	1-216-073-00 1-216-025-00 1-216-663-11 1-216-663-11	METAL GLAZE 100 METAL CHIP 3.3K METAL CHIP 3.3K	5% 5% 0.50% 0.50%	1/10W		R1811 R1812 R1813 R1814	1-216-081-00 1-216-097-00 1-216-057-00 1-216-699-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	22K 100K 2.2K 100K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	
	R1605 R1606 R1607 R1608 R1610	1-216-663-11 1-216-663-11 1-216-663-11 1-214-729-00	METAL CHIP 3.3K METAL CHIP 3.3K METAL CHIP 3.3K METAL 1K	0.50% 0.50% 0.50% 0.50% 1%	1/10W 1/10W		R1815 R1816 R1817 R1818 R1818	1-216-097-00 1-216-033-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 100K 220 100 100	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	R1612 R1613	1-214-729-00 1-214-673-00	METAL 1K METAL 4.7		1/4W 1/4W		R1820			100	5%	1/10W	

The components identified by shading and mark  $\triangle$  are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \( \Lambda \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PART NO.	DESCRIPTION	REM.	MARK REF.NO.	PART NO.	DESCRIPTION		REMARI
R1821 1-216-097-00 R1823 1-208-811-11 R1824 1-216-685-11 R1825 1-216-685-11 R1826 1-216-685-11	METAL GLAZE 100K METAL CHIP 16K METAL CHIP 27K METAL CHIP 27K METAL CHIP 27K	REM.  5% 1/10W 0.50% 1/10W 5% 1/10W	R1888 R1889 R1890 R1891 R1892	1-216-651-11 1-216-651-11 1-216-125-00 1-208-806-11 1-216-067-00	METAL CHIP METAL CHIP METAL GLAZE METAL CHIP METAL GLAZE	1K 0.50 1K 0.50 1.5M 5% 10K 0.50 5.6K 5%	% 1/10W % 1/10W 1/10W % 1/10W 1/10W
R1827 1-216-685-11 R1828 1-216-685-11 R1829 1-216-685-11 R1830 1-216-025-00 R1831 1-216-049-00	METAL CHIP 27K METAL CHIP 27K METAL CHIP 27K METAL GLAZE 100 METAL GLAZE 1K	0.50% 1/10W 0.50% 1/10W 0.50% 1/10W 5% 1/10W 5% 1/10W	R1893 R1894A R1895 R1896A	1-216-097-00 1-249-389-91 1-216-043-91 1-249-389-91 1-249-007-00	METAL GLAZE CARBON METAL GLAZE CARBON METAL GLAZE	100K 5%	1/10W 1/4W P 1/10W 1/4W P
R1832 1-216-677-11 R1833 1-216-049-00 R1834 1-216-049-00 R1835 1-216-025-00 R1836 1-216-081-00	METAL CHIP 12K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 100 METAL GLAZE 22K	0.50% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R1898 R1899 R1900 R1901	1-216-057-00 1-216-057-00 1-216-033-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5%  100K 5%  220 5%  100 5%	1/10W 1/10W 1/10W 1/10W
R1837 1-208-806-11 R1838 1-216-651-11 R1839 1-216-031-00 R1840 1-208-806-11 R1841 1-208-806-11	METAL CHIP 10K METAL CHIP 1K METAL GLAZE 180 METAL CHIP 10K METAL CHIP 10K	0.50% 1/10W 0.50% 1/10W 5% 1/10W 0.50% 1/10W 0.50% 1/10W	R1902 R1903 R1904 R1905 R1907	1-216-025-00 1-216-025-00 1-216-097-00 1-208-810-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	100 5% 100 5% 100 5% 100K 5% 15K 0.50	1/10W 1/10W 1/10W 1/10W 1/10W
R1842 1-216-025-00 R1843 1-216-651-11 R1844 1-216-025-00 R1845 1-216-077-00 R1846 1-216-125-00	METAL GLAZE 100 METAL CHIP 1K METAL GLAZE 100 METAL GLAZE 15K METAL GLAZE 1.5M	5% 1/10W 0.50% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R1908 R1909 R1910 R1911 R1912	1-208-814-11 1-216-025-00 1-216-685-11 1-216-685-11 1-216-685-11	METAL CHIP METAL GLAZE METAL CHIP METAL CHIP METAL CHIP	22K 0.50 100 5% 27K 0.50 27K 0.50 27K 0.50	% 1/10W 1/10W % 1/10W % 1/10W % 1/10W
R1847 1-208-806-11 R1848 1-216-077-00 R1849 1-216-067-00 R1850 1-216-097-00 R1851 1-216-043-91	METAL CHIP 10K METAL GLAZE 15K METAL GLAZE 5.6K METAL GLAZE 100K METAL GLAZE 560	0.50% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R1913 R1914 R1915 R1916 R1917 R1918 R1919	1-216-685-11 1-216-685-11 1-216-025-00 1-208-806-11	METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL CHIP	27K 0.50 27K 0.50 27K 0.50 100 5% 10K 0.50	% 1/10W % 1/10W 1/10W 1/10W 2 1/10W
R1852 1-216-097-00 R1853 1-216-057-00 R1854 1-216-025-00 R1855 1-216-097-00	METAL GLAZE 1001	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	: R1923	1-216-651-11 1-208-822-11 1-216-651-11 1-216-677-11 1-216-031-00	METAL CHIP	12K 0.5t	J& 1/1UW
R1859 1-216-025-00 R1860 1-216-025-00	METAL GLAZE 220 METAL GLAZE 1001 METAL GLAZE 100 METAL GLAZE 100	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R1926 R1927 R1928 R1931	1-208-806-11 1-216-125-00 1-208-806-11 1-216-698-11	METAL CHIP METAL GLAZE METAL CHIP METAL CHIP	1.5M 5% 10K 0.50	0% 1/10W
	METAL OXIDE 56 METAL GLAZE 100 METAL GLAZE 100	5% 3W F 5% 1/10W 5% 1/10W 5% 1/10W 5% 3W F	R1926 R1927 R1928 R1931 R1935 R1937 R1938 R1940 R1941 R1942 R1943	1-218-766-11 1-208-806-11 1-208-810-11 1-208-812-11 1-208-806-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	390K 0.50 10K 0.50 15K 0.50 18K 0.50	
R1866 1-216-473-11  R1868 1-216-025-00  R1869 1-216-685-11  R1870 1-216-685-11	METAL OXIDE 56  METAL GLAZE 100  METAL CHIP 27K  METAL CHIP 27K	5% 1/10W 0.50% 1/10W 0.50% 1/10W	R1944 R1947	1-208-806-11 1-216-073-00	METAL CHIP METAL GLAZE	10K 0.56 100K 0.56 10K 0.56	0% 1/10W 0% 1/10W 0% 1/10W 1/10W
R1871 1-216-685-11 R1872 1-216-685-11 R1873 1-216-685-11 R1874 1-216-685-11 R1875 1-208-824-11	METAL CHIP 27K METAL CHIP 27K METAL CHIP 27K	0.50% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W	R1948 R1949 R1950 R1951	1-216-093-00 1-216-659-11 1-216-659-11 1-208-806-11 1-208-806-11	METAL CHIP METAL CHIP METAL CHIP	2.2K 0.5 2.2K 0.5 10K 0.5	1/10W 0% 1/10W 0% 1/10W 0% 1/10W
R1876 1-216-025-00 R1877 1-208-810-11 R1878 1-208-806-11 R1879 1-216-685-11	METAL GLAZE 100 METAL CHIP 15K METAL CHIP 10K METAL CHIP 27K	5% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W	R1954 R1955 R1956 R1957	1-208-806-11 1-208-806-11 1-208-800-11 1-208-824-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 0.5 10K 0.5 5.6K 0.5 56K 0.5	0% 1/10W 0% 1/10W 0% 1/10W 0% 1/10W
R1880 1-218-768-11 R1881 1-216-295-00 R1883 1-216-677-11 R1884 1-208-806-11	) CONDUCTOR, CHIP 1 METAL CHIP 12K 1 METAL CHIP 10K	0.50% 1/10W 0.50% 1/10W	R1958 R1959 R1960 R1961 R1962	1-208-800-11 1-208-824-11 1-208-806-11 1-208-806-11 1-216-077-00	METAL CHIP METAL CHIP METAL CHIP	56K 0.5 10K 0.5	1/10W 10% 1/10W 10% 1/10W 1/10W 1/10W
R1885 1-216-049-00 R1886 1-216-031-00 R1887 1-208-806-1	) METAL GLAZE 180		R1963 R1964	1-216-073-00 1-216-049-00		10K 5% 1K 5%	1/10W 1/10W

### KP-41T15/46S15/53S15 RM-Y118 RM-Y118 RM-Y118



REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK 
R1965 1-216-073-00 R1966 1-216-073-00 R1967 1-216-071-00 R1970 1-208-774-11 R1971 1-216-667-11	METAL GLAZE 10K METAL GLAZE 10K METAL GLAZE 8.2K METAL CHIP 470 METAL CHIP 4.7K	5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		S1302 S1303 S1304	1-571-731-11 1-571-731-11 1-571-731-11 1-571-731-11 1-571-731-11	SWITCH, TACTI SWITCH, TACTI SWITCH, TACTI	L L L		
R1981 1-216-473-11 R1982 1-216-473-11 R1983 1-216-077-00	METAL OXIDE 56	5% 5%	3W 3W 1/10W		S1306	1-571-731-11 1-571-731-11	SWITCH. TACT	IL.		
R1984 1-216-077-00 R1985 1-216-025-00	METAL GLAZE 15K	5% 5% 5%	1/10W 1/10W 1/10W		!	*********			*****	******
<the< td=""><td>RMISTOR&gt;</td><td></td><td></td><td></td><td></td><td>*A-1373-511-A</td><td>U BOARD, COM</td><td></td><td></td><td></td></the<>	RMISTOR>					*A-1373-511-A	U BOARD, COM			
TH1501 1-807-925-11 TH1801 1-808-269-11	THERMISTOR THERMISTOR					1-923-505-16	WIRE UL1007	AWG24 70MM BI	RN	
	STAL>					<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td></cap<>	ACITOR>			
X1701 1-579-917-11					C1102	1-128-551-11 1-124-903-11	ELECT	22MF 1MF	20% 20%	50V 50V
***********	*******	******	*****	******	C1104	1-124-903-11 1-163-031-11 1-128-551-11	CERAMIC CHIP	1MF 0.01MF 22MF	20%	50V 50V 50V
*A-1372-099-A	HA BOARD, COMPLETI				C1106	1-128-551-11	ELECT	22MF 1MF	20% 20%	50V 50V
<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>C1109</td><td>1-124-903-11 1-124-903-11 1-128-551-11</td><td>ELECT</td><td>1MF 22MF</td><td>20% 20%</td><td>50V 50V</td></cap<>	ACITOR>				C1109	1-124-903-11 1-124-903-11 1-128-551-11	ELECT	1MF 22MF	20% 20%	50V 50V
C1301 1-126-964-11 C1304 1-126-964-11				50V 50V	C1111	1-124-903-11 1-124-903-11	ELECT	IMF	20% 20%	50V 50V
<ru></ru>	INECTOR>				C1121 C1122	1-126-935-11 1-163-117-00 1-124-903-11	ELECT CERAMIC CHIP	470MF 100PF	20% 5% 20%	16V 50V 50V
CN1346 1-564-524-11	PLUG, CONNECTOR 9	P			C1124	1-128-551-11	ELECT	22MF	20%	50V
CN1347*1-564-521-11	PLUG, CONNECTOR 6	P			C1126	1-124-903-11 1-104-665-11 1-104-663-11	ELECT	1MF 100MF 33MF	20% 20% 20%	50V 25V 25V
<dic D1304 8-719-053-43</dic 		•			C1128	1-163-117-00 1-124-902-00	CERAMIC CHIP	100PF 0.47MF	5% 20%	50V 50V
D1305 8-719-053-43	DIODE SLR-325VCT3	İ			C1134	1-128-551-11 1-104-665-11	ELECT	22MF 100MF	20% 20%	50V 25V
<10>	•				C1137	1-128-551-11 1-164-232-11 1-124-902-00	CERAMIC CHIP	22MF 0.01MF 0.47MF	20% 10% 20%	50V 50V 50V
IC1301 8-741-780-51	IC SBX1780-51				C1139	1-126-964-11	ELECT	10MF 220MF	20%	50V
\JA(>					C1146	1-128-499-11 1-124-902-00 1-124-902-00	ELECT ELECT ELECT	0.47MF 0.47MF	20% 20% 20%	16V 50V 50V
J1301 1-750-517-11	JACK BLOCK, PIN 3	P			C1148	1-124-902-00 1-124-902-00	ELECT ELECT	0.47MF 0.47MF	20% 20%	50V 50V
R1302 1-249-416-11	SISTOR>  CARBON 820	E¥	1 /46)		C1150	1-128-499-11 1-128-499-11	ELECT ELECT	220MF 220MF	20% 20%	16V 16V
R1303 1-249-417-11 R1304 1-249-425-11	CARBON 1K CARBON 4.7	5% K 5%	1/4W 1/4W 1/4W		C1152 C1153	1-128-499-11 1-104-665-11	ELECT ELECT	220MF 100MF	20% 20%	16V 25V
R1305 1-249-411-11 R1306 1-249-411-11	CARBON 330 CARBON 330		1/4W 1/4W			<f11< td=""><td>TER BLOCK&gt;</td><td></td><td></td><td></td></f11<>	TER BLOCK>			
R1307 1-249-420-11 R1308 1-247-895-00 R1309 1-247-895-00	CARBON 1.8 CARBON 470 CARBON 470	K 5%	1/4W 1/4W 1/4W		CM1101	1 1-466-912-21	FILTER BLOCK	, COMB		
R1310 1-249-429-11 R1311 1-247-815-91	CARBON 10K CARBON 220	5% 5%	1/4W 1/4W 1/4W				NECTOR>			
R1312 1-247-804-11 R1314 1-247-807-31		5% 5%	1/4W 1/4W		CN1150   CN115!	7*1-564-509-11 0 1-573-300-21 5*1-565-928-11 6*1-566-641-11	CONNECTOR, B CONNECTOR (T	OARD TO BOAR UB) 30P		
<sw< td=""><td>ITCH&gt;</td><td></td><td></td><td></td><td></td><td>3 222 011 11</td><td></td><td> Chinal . F</td><td></td><td></td></sw<>	ITCH>					3 222 011 11		Chinal . F		



REF.NO. PART NO.	DESCRIPTION	REMARK		PART NO.	DESCRIPTION				REMA
<dio< td=""><td>DE&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></dio<>	DE>								
D1101 8-719-110-17 D1102 8-719-110-17 D1103 8-719-110-17 D1104 8-719-110-17 D1106 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2		R1101 R1102 R1103 R1104 R1105	<pre></pre>	ISTOR> METAL GLAZE METAL GLAZE CARBON METAL GLAZE CARBON	4.7K 4.7K 75 4.7K 75	5%% 5%% 5%%	1/10W 1/10W 1/4W 1/10W 1/10W	
D1108 8-719-110-17 D1109 8-719-110-17 D1111 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2		R1106 R1107 R1108 R1109	1-247-804-11 1-216-113-00 1-216-065-00 1-216-113-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE	75 470K 4.7K 470K	5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W	
D1113 8-719-110-17 D1114 8-719-110-17 D1115 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2		R1111 R11112 R11113 R11114	1-216-065-00 1-216-065-00 1-247-804-11 1-216-113-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE	4.7K 4.7K 75 470K	5% 5% 5% 5%	1/10W 1/10W 1/4W 1/10W	
D1121 8-719-110-36 D1122 8-719-110-36	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD13ESB2 DIODE RD13ESB2		R1115 R1116 R1117 R1118 R1119	1-216-113-00 1-216-095-00 1-216-095-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 82K 82K 82K 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D1125 8-719-109-66 D1126 8-719-110-17 D1127 8-719-110-17	DIODE RD13ESB2 DIODE RD13ESB2 DIODE RD3.3ESB2 DIODE RD10ESB2 DIODE RD10ESB2		R1120 R1127 R1129 R1130 R1132	1-216-025-00 1-216-041-00 1-216-041-00 1-216-067-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 470 470 5.6K 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D1135 8-719-911-19	DIODE 188119-25		R1133 R1134 R1140	1-216-067-00 1-216-065-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 4.7K 100	5% 5%	1/10W 1/10W 1/10W	
IC1101 8-752-068-46 IC1102 8-759-701-59	IC CXA1855S IC NJM7809FA		R1141 R1142 R1145	1-216-041-00 1-216-025-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 100 1.2K	5% 5% 5%	1/10W 1/10W 1/10W	
<pre><ja0 1-750-515-11="" 1-750-517-11="" 1-750-517-12<="" j104="" j1101="" j1102="" pre=""></ja0></pre>	IC CXA1855S IC NJM7809FA  CK>  TERMINAL BLOCK, S 3P JACK BLOCK, PIN 3P JACK BLOCK, PIN 3P JACK BLOCK, PIN 2P JACK, MINIATUER (DIA. 3.5)  JACK, MINIATUER (DIA. 3.5)		R1146 R1149 R1150 R1151 R1152	1-216-051-00 1-216-041-00 1-216-025-00 1-216-025-00 1-216-043-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 470 100 100 560	5%%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
J1105 1-750-516-11 J1106 1-563-760-11 J1107 1-563-760-11	JACK BLOCK, PIN 2P JACK, MINIATUER (DIA. 3.5) JACK, MINIATUER (DIA. 3.5)		R1153 R1154 R1155 R1156 R1157	1-216-049-00 1-216-041-00 1-216-049-00 1-216-043-91 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 470 1 K 560 680	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
<pre><co! 1-410-473-11="" 1-410-476-11="" 1-410-494-11<="" l1101="" l1104="" l1105="" pre=""></co!></pre>	IL> Inductor 33uh Inductor 18uh		R1160 R1161 R1162 R1165 R1166	1-216-049-00 1-216-041-00 1-216-041-00 1-249-403-11	METAL GLAZE METAL GLAZE METAL GLAZE CARBON	1K 470 470 68 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W	
Q1102 8-729-216-22	ANSISTOR> TRANSISTOR 2SA1162-G		R1167 R1168 R1169 R1170	1-216-113-00 1-216-113-00 1-216-025-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 470K 100 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
91103 8-729-216-22 91104 8-729-422-27 91105 8-729-216-22 91106 8-729-216-22 91108 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R1171 R1172 R1173 R1174 R1175	1-216-025-00 1-216-025-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 100 100 470 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q1109 8-729-216-22 Q1110 8-729-216-22 Q1111 8-729-216-22 Q1112 8-729-422-27	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q		R1176 R1178 R1179 R1180	1-216-025-00 1-216-041-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 470 100 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
Q1113 8-729-422-27 Q1114 8-729-422-27 Q1115 8-729-422-27	TRANSISTOR 2SD601A-Q		R1181 R1182	1-216-097-00	METAL GLAZE	100K 470K	5% 5%	1/10W 1/10W	

U ZR (KP-	41T15) <b>ZR</b> (	KP-46	S15/	53S1	5)	ZG					
REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART	NO.	DESCRIPTION				REMARK
R1183 1-216-049-00 R1184 1-216-113-00 R1185 1-216-049-00 R1186 1-216-061-00 R1187 1-216-061-00	METAL GLAZE 1K 5% METAL GLAZE 470K 5% METAL GLAZE 1K 5% METAL GLAZE 3.3K 5% METAL GLAZE 3.3K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1406 R1407 R1408 R1409 R1410	1-249 1-249 1-249	5-479-11 0-400-11 1-384-11 1-384-11 1-734-11	METAL OXIDE CARBON CARBON CARBON CARBON	560 39 1.8 1.8	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	3W 1/4W 1/4W 1/4W 1/2W	4 4 4 4 4
R1188 1-216-097-00 R1190 1-216-295-00 R1191 1-216-295-00 R1192 1-216-295-00 R1193 1-216-025-00	METAL GLAZE 100K 5% CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP METAL GLAZE 100 5%	1/10W		R1411 R1412 R1413 R1414	1-249 1-249 1-249 1-249	)-417-11  -414-11  -432-11  -432-11  -414-11	CARBON CARBON CARBON CARBON CARBON	1 K 560 18 K 18 K 560	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W 1/4W	F F
R1194 1-216-025-00 R1196 1-216-041-00 R1197 1-216-041-00	METAL GLAZE 100 5% METAL GLAZE 470 5% METAL GLAZE 470 5%	1/10W 1/10W 1/10W	*****	R1416 R1417 R1418 R1419	1-216 1-249	5-451-11 5-475-11 9-377-11 7-815-91	METAL OXIDE METAL OXIDE CARBON CARBON	120 120 0.47 220	5% 5% 5%	2W 3W 1/4W 1/4W	1 1
*A-1390-487-A				R1420	1-216	5-475-11	METAL OXIDE	120 1K	5% 5%	3W 1/4W	F
4-382-854-11	SCREW (M3X10), P, SW (+)	)		*****	*****	*****	*********	*****	*****	*****	******
<caf< th=""><th>PACITOR&gt;</th><th></th><th></th><th></th><th>*A-139</th><th>00-513-A</th><th>ZR BOARD, CO</th><th>(PLETE</th><th>(KP-46</th><th>S15/53</th><th>S15)</th></caf<>	PACITOR>				*A-139	00-513-A	ZR BOARD, CO	(PLETE	(KP-46	S15/53	S15)
C1401 1-162-115-00 C1402 1-162-115-00 C1403 1-102-978-00	CERAMIC 330PF CERAMIC 220PF	10% 5%	2KV 2KV 50V		4-382		SCREW (M3X10)	, P, S	₩ (+)		
C1404 1-107-638-11 C1405 1-104-665-11	ELECT 33MF ELECT 100MF		160V 25V	C1401	1-162	<cap 2-115-00</cap 	ACITOR>	330PF		10%	2KV
C1406 1-107-370-11 C1407 1-104-665-11 C1408 1-107-362-11 C1409 1-107-667-11	ELECT 100MF FILM 0.0047MF ELECT 2.2MF	20% 10% 20%	200V 25V 200V 160V			2-115-00		330PF		10% 10%	2KV
C1410 1-107-362-11 C1411 1-137-364-11 C1412 1-137-364-11 C1413 1-161-830-00 C1414 1-126-940-11 C1415 1-164-046-11	FILM 0.001MF	5% 5% 99% 20%	200V 50V 50V 500V 16V 50V	CN1412 CN1413	*1-564 *1-564	0-689-11 1-507-11 1-506-11 1-506-11	PIN, CONNECTO PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	OR 4P	BOARD)	<b>4</b> P	
C1416 1-102-973-00	CERAMIC 100PF	5%	50 <b>V</b>	D1401	1_240	<res 0-414-11</res 	ISTOR>	560	E%	1/4W	
<001	NNECTOR>			R1402 R1403	1-249 1-202	9-414-11 2-822-00	CARBON SOLID	560 2.2K	5% 5% 20%	1/4W 1/2W	
CN1412*1-564-507-11 CN1413*1-564-506-11	PLUG, CONNECTOR 3P PLUG. CONNECTOR 6P	D) 4P		R1417 R1420	1-216 1-216			2.2K 120 120	20% 5% 5%	1/2W 3W 3W	F F
4	DDE>				*A-139	90-489-A	ZG BOARD, COI	MPLETE	(KP-4	IT15)	
D1401 8-719-110-88 D1402 8-719-110-88	DIODE RD39ESB2				*A-139	90-512-A	ZG BOARD, COL	MPLETE	(KP-4	SS15/53	3S15)
<tr.< td=""><td>ANSISTOR&gt;</td><td></td><td></td><td></td><td></td><td><cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></cap<></td></tr.<>	ANSISTOR>					<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				
Q1402 8-729-017-05	TRANSISTOR 2SC4793 TRANSISTOR 2SA1837 TRANSISTOR 2SD774-34			C1432	1-162	2-115-00 2-115-00 2-973-00	CERAMIC	330PF 330PF 100PF		10% 10% 5%	2KV 2KV 50V (P-41T15)
<re:< th=""><th>SISTOR&gt;</th><th></th><th></th><th></th><th></th><th><con< th=""><th>NECTOR&gt;</th><th></th><th></th><th></th><th></th></con<></th></re:<>	SISTOR>					<con< th=""><th>NECTOR&gt;</th><th></th><th></th><th></th><th></th></con<>	NECTOR>				
R1401 1-249-414-11 R1402 1-249-414-11 R1403 1-202-822-00 R1404 1-202-822-00 R1405 1-249-417-11	CARBON 560 5% SOLID 2.2K 20% SOLID 2.2K 20%	1/4W 1/4W 1/2W 1/2W 1/4W		CN1442	2*1-564 3*1-564	0-689-11 4-507-11 4-506-11	PIN, CONNECTI PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	TOR 4P TOR 3P			15/53\$15)

The components identified by shading and mark  $\Lambda$  are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque Å sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

### KP-41T15/46S15/53S15 RM-Y118 RM-Y118 RM-Y118

ZG ZB

REMARK

 REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO. PART NO.
CN1445	*1-564-510-11	PLUG, CONNECT	OR 7P		(KI	P-41 <b>T</b> 15)	ACC
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td>***</td></res<>	ISTOR>					***
R1432 R1433 R1434	1-249-414-11 1-249-414-11 1-202-822-00 1-202-822-00 1-216-475-11	CARBON SOLID SOLID	560 560 2.2K 2.2K 120	5% 5% 20% 20% 5%	1/4W 1/4W 1/2W 1/2W 3W	F .	3-798-90' *4-041-42( *4-042-46: *4-047-77' *4-047-77'
R1437	1-216-475-11 1-249-417-11	CARBON	120 1K	5% 5%	1/4W (K	F P-41T15)	*4-047-77; *4-047-77; *4-048-57; *4-048-58; *4-048-58;
*****	*********	*********	*****	*****	*****	******	*4-048-58
:	*A-1390-491-A	ZB BOARD, COM			v		*4-049-15
	3.1						5 8 1
		ACITOR>					
C1461 C1462	1-162-115-00 1-162-115-00		330PF 330PF		10% 10%	2KV 2KV	1-467-05 9-903-82
	< CON	NECTOR>					
CN1 471		PIN, CONNECTO	ום (פר	DUADU	A A D		
CN1472	*1-564-507-11	PLUG, CONNECT PLUG, CONNECT	OR 4P	DUARV	, <b>4</b> r		
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td></res<>	ISTOR>					
R1462 R1463 R1464	1-249-414-11 1-249-414-11 1-202-822-00 1-202-822-00 1-216-475-11	CARBON	560 560 2.2K 2.2K 120	5% 5% 20% 20% 5%	1/4W 1/4W 1/2W 1/2W 3W	F	
R1466	1-216-475-11	METAL OXIDE	120	5%	3W	F	
*****	*********	********	****	*****	*****	******	,
		MISCELLANEOUS					
4	1-223-925-1 1-452-790-11 1-452-790-21 1-504-785-11 1-556-945-21	RESISTOR ASSY NECK ASSY NECK ASSY SPEAKER (10CL CABLE, P-P	(KP-41 (KP-41	T15).	AGE)		
	1-559-865-41 1-561-306-00	JACK, PIN (F	GH-VO	LTAGE			
4	L 1-769-837-11 L 1-900-211-34 L 8-451-463-11	LEAD ASSY, B DX Y829PA2N	1		ILIBN)	(-UA/123)	
V901 Z V902 Z	<b>∆</b> 8–451–463–21 <b>Å</b> 8–598–955–00 <b>Å</b> 8–736–078–05 <b>Å</b> 8–736–079–05 <b>Å</b> 8–736–081–05	PLCTURE TUBE	HIGH-V O7MAB O7MAB	5(G) 5(B) (	KP-41T1	15/46\$15) 15)	
		PICTURE TUBE PICTURE TUBE					
****	*******	*********	*****	*****	*****	******	·

### ACCESSORIES AND PACKING MATERIALS

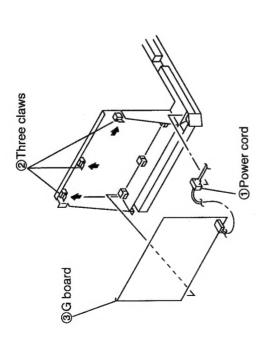
DESCRIPTION

3-798-907-21 *4-041-426-01 *4-042-463-01 *4-047-776-01 *4-047-777-01	MANUAL, INSTRUCTION BAG, PROTECTION SHEET, PROTECTION TRAY INDIVIDUAL CARTON	(KP-53S15) (KP-53S15) (KP-53S15) (KP-53S15)
*4-047-778-01 *4-047-779-01 *4-048-579-01 *4-048-580-01 *4-048-581-01	CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) TRAY	(KP-53S15) (KP-53S15) (KP-41T15) (KP-41T15) (KP-41T15)
*4-048-582-01 *4-049-155-01	INDIVIDUAL CARTON BAG, PROTECTION	(KP-41T15) (KP-41T15)

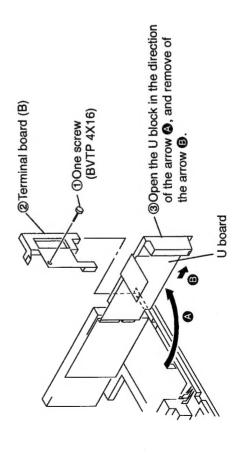
### REMOTE COMMANDER

1-467-059-21 REMOTE COMMANDER (RM-Y118) 9-903-826-01 COVER, BATTERY (FOR RM-Y118)

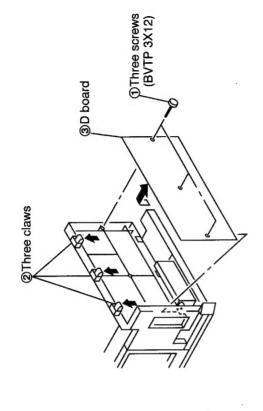
## 2-4. G BOARD REMOVAL



## 2-6. U BOARD REMOVAL

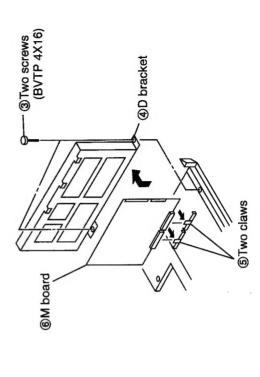


## 2-5. D BOARD REMOVAL

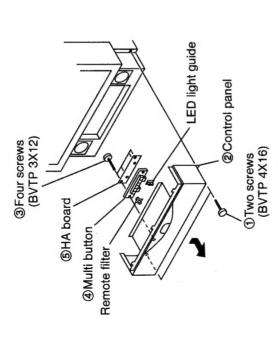


## 2-7. M BOARD REMOVAL

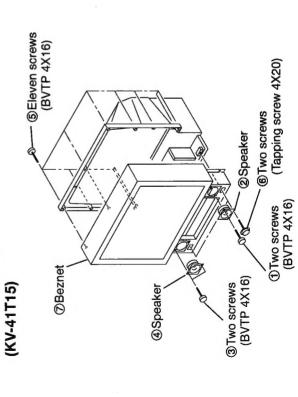
- ① Remove the D board. (Refer to 2-5.)
- ② Remove the U board. (Refer to 2-6.)



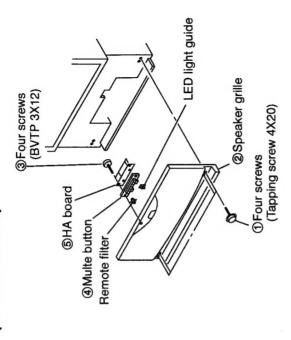
## 2-8-1. HA BOARD REMOVAL (KP-41T15)



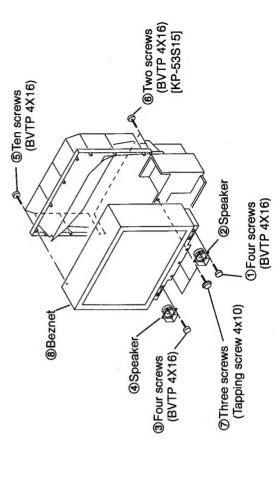
## 2-9-1. BEZNET REMOVAL



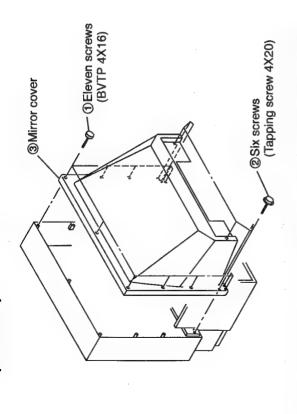
### 2-8-2. HA BOARD REMOVAL (KP-46S15/53S15)



### 2-9-2. BEZNET REMOVAL (KV-46S15/53S15)



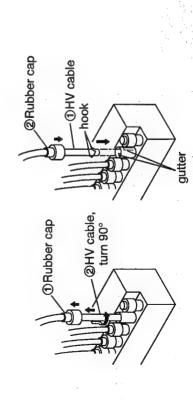
# 2-10-1. MIRROR COVER REMOVAL (KP-41T15)



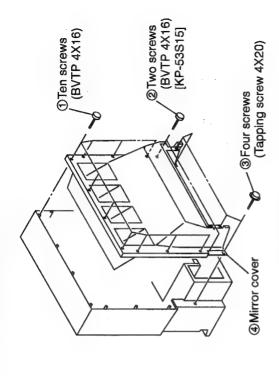
# 2-11.HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(2) Installation

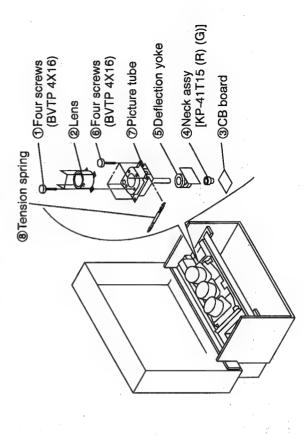
(1) Remover



## 2-10-2. MIRROR COVER REMOVAL (KP-46S15/53S15)



## 2-12. PICTURE TUBE REMOVAL



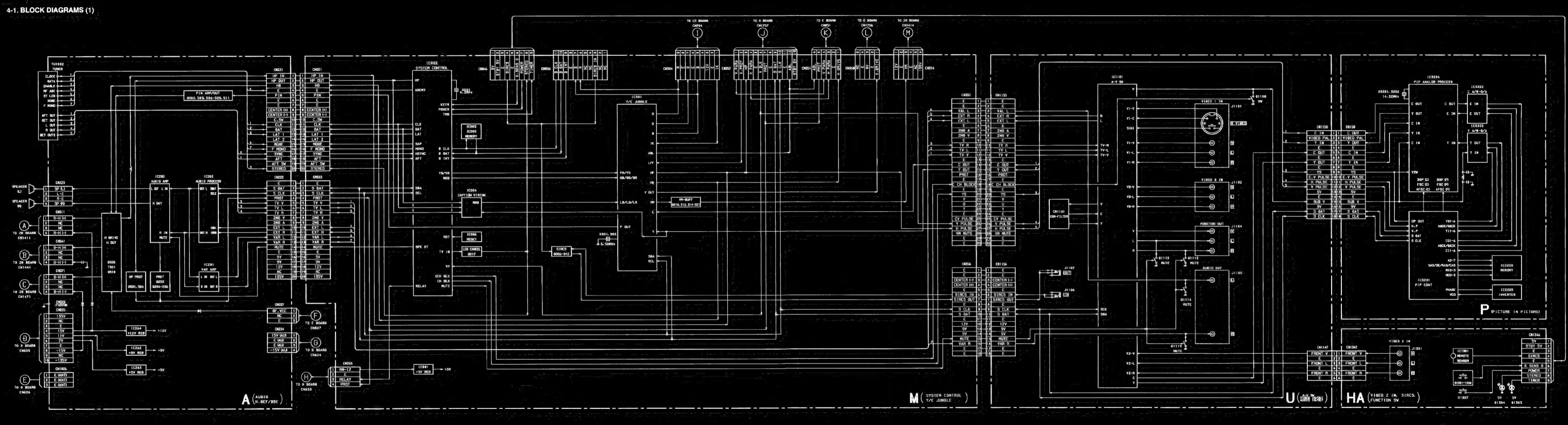
SAFETY RELATED ADJUSTMENTS

ILLUSTRATION AND SHAPE AND NUMBER	E BOARD – COMPONENT SIDE –	CN886 CN885 CN884    O   O   O	Remove the cap off from the unused terminal and connect a static voltmeter there.		* CN885 P o o E board VR33kΩ
ADJUSTMENT LOCATION	* <b>K</b> R809, R988			* PICTURE	
MEASUREMENT POSITION	* Marked parts	C818, D804, D806, D809, D909, D912, Q915, R809, R855, R855, R856, R856, R983, R984, R988, R991, R995, R996, R998, T803, FBT E	board HV Block *HV Block		
EQUIPMENT AND SIGNAL			* Static Voltmeter	*Dot pattern	
ADJUSTMENT ITEM AND PROCEDURE	HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (*M RESISTOR)  When replacing the parts marked *A on the right, check the HV	hold down and adjust.	<ol> <li>Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter.</li> <li>Input 130 VAC power.</li> </ol>	3. Receive the *Dot siganl and set the *PICTURE and BRIGHTNESS settings to their minimums.	<ol> <li>Connect a *33 kΩ variable resistor across the E board *CN885 connector (with the variable resistor set to its maximum).</li> </ol>

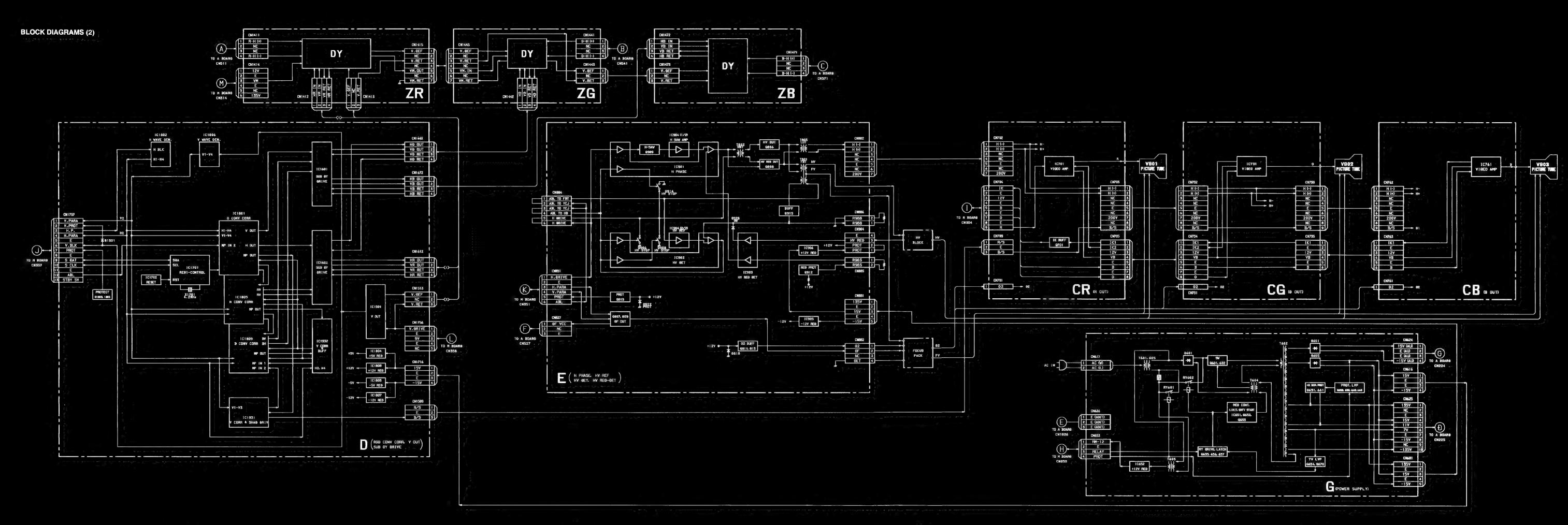
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
5. Gradually lower the value of the variable resistor and check that the hold down circuit operates at a Static Voltmeter reading of *33.7 ± 0.8 kVDC and that the rasters disappear.  6. If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of *34.0 VDC or higher, remove resistor *R809 and mount a *16.0 kΩ 1/4W RN at *R988. If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of *32.0 VDC or lower, remove resistor R809 and mount *6.2 kΩ 1/4W RN at *R988.  7. Check Item 5 again.			*R988	*33.7 ± 0.8 kVDC  *34.0 VDC or higher *16.0 kΩ 1/4W  *32.0 VDC or lower *6.2 kΩ 1/4W  *F. 1/4W  *F. 1/4W  *F. 1/4W  *F. 1/4W
HV REGULATION CIRCUIT CHECK AND ADJUSTMENT  (*M RESISTOR)  When replacing the parts marked *M on the right, check the HV		* Marked parts	* <b>™</b> R808, R983	F BOARD - COMPONENT SIDE
regulation and adjust.  1. Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter.  2. Input 120 VAC power.  3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.	* Static Voltmeter	C918, C930, C934, C980, D902, D920, D925, Q909, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R988, HV Block *HV Block	*PICTUREminimum BRIGHTNESSminimum	1 7 10 1

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
OVERVOLTAGE PROTECTION (OVP) OPERATIONS CHECK				
1. Connect a *220 kQ variable resistance rheostat to the G board C655 (between Pins @ and ⑤ of IC651).				* G board
				-6666666666666-
<ol> <li>Input *120.0 ± 1.0 VAC, 60 Hz power.</li> <li>Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ol>	*Dot pattern		*PICTURE	* 120.0 ± 1.0 VAC, 60 Hz
<ul> <li>4. Gradually lower the value of the connected variable resistance and check that when the +B line *voltage is *143.5 ± 5.5 VDC, the overvoltage circuit operates and the rasters disappear.</li> <li>5. Remove the variable resistor and check the +B line voltage.</li> </ul>	*Digital Multimeter		Minimum minimum	*143.5 ± 5.5 VDC
BEAM CURRENT (SIK) PROTECTION CIRCUIT CHECK  1. Connect the *ABL ammeter between *Pins (1) and (4) of the CN884 on the E board.  Have Pins (2) and (3) open.	*Ammeter			*  CN884 (E board)  5 0 040 0 01 ABL ammeter
<ol> <li>Input *120.0 ± 1.0 VAC, 60 Hz power.</li> <li>Receive a *monoscope signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ol>	*Monoscope pattern		*PICTUREminimum BRIGHTNESSminimum	*120.0 ± 1.0 VAC, 60 Hz

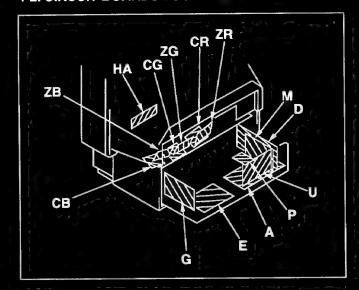
ILLUSTRATION AND SHAPE AND NUMBER	*Less than 3.35 mA	E BOARD COMPONENT SIDE	 * 120.0 ± 1.0 V, 60 Hz	* 135.0 ± 2.0 VDC * 130.0 +2.0 VAC * Less than 137.0 VDC		
ADJUSTMENT LOCATION	*PICTURE BRIGHTNESS		*PICTURE			
MEASUREMENT POSITION				* CN681 pin ①		
EQUIPMENT AND SIGNAL			*Dot pattern			
ADJUSTMENT ITEM AND PROCEDURE	4. Gradually raise the *PICTURE and BRIGHTNESS settings and check that below an *ABL current of 3.35 mA (including dark current), the beam current protection circuit operates and the rasters disappear.	+B, +B MAX CHECK When replacing the G board IC651, check the following.	<ol> <li>Input *120.0 ± 1.0 V, 60 Hz power.</li> <li>Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ol>	<ul> <li>3. Check that the *+B line voltage is now *135.0 ± 2.0 VDC.</li> <li>4. Set the power supply to *130.0 +2.0 VAC.</li> <li>5. Check that the *+B line voltage is *137.0 VDC max.</li> <li>6. If either 3 or 5 is not satisfied, replace IC651 again.</li> </ul>		



- 29



### 4-2. CIRCUIT BOARDS LOCATION



### 4-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted pF; μμΕ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms.
- $k\Omega = 1000 \Omega$ ,  $M\Omega = 1000 k\Omega$
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm Rating electrical power: 1/4W

- monflammable resistor.
   monflammable resistor.
- \( \Delta \) : internal component.
- panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B. unless otherwise noted.
- earth-chassis.
- The components identified by 

  in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by A and repeat the adjustment until the specified value is achieved.
- (Refer to R808, R809, R983 and R988 adjustment on Page 20 - 24.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (☑)	Adjustment (►)
HV Block Q915, D804, D806, D809, D909, D912, C818, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T801 (FBT), T803	HV HOLD-DOWN (R809, R988)
HV Block Q909, D902, D920, D925, C918, C930, C934, C980, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R965, R967, R971, R975, R976, R982, R983, R985, R998 · · · · E BOARD	HV Reagurater (R808, R983)

RESISTOR T & RN LO METAL FILM RC SOLID FPRD NONFLAMMABLE CARBON FUSE | NONFLAMMABLE FUSIBLE RW S NONFLAMMABLE WIREWOUND RS NONFLAMMABLE METAL OXIDE NONFLAMMABLE CEMENT ADJUSTMENT RESISTOR : LF-8L MICRO INDUCTOR : CAPACITOR TA TANTALUM PS STYROL PP POLYPROPYLENE PT MYLAR MPS METALIZED POLYESTER MPP METALIZED POLYPROPYLENE

· As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list.

ALT HIGH TEMPERATURE

Readings are taken with a color-bar signal input.

ALB BIPOLAR

Readings are taken with a 10M Ω digital multimeter.

ALR HIGH RIPPLE

- Voltages are dc with respect to ground unless otherwise noted. ◆ Voltage variations may be noted due to normal production

tolerances.

- \*: Measurement impossibillity.
- Circled numbers are waveform references.
- 34 % huses

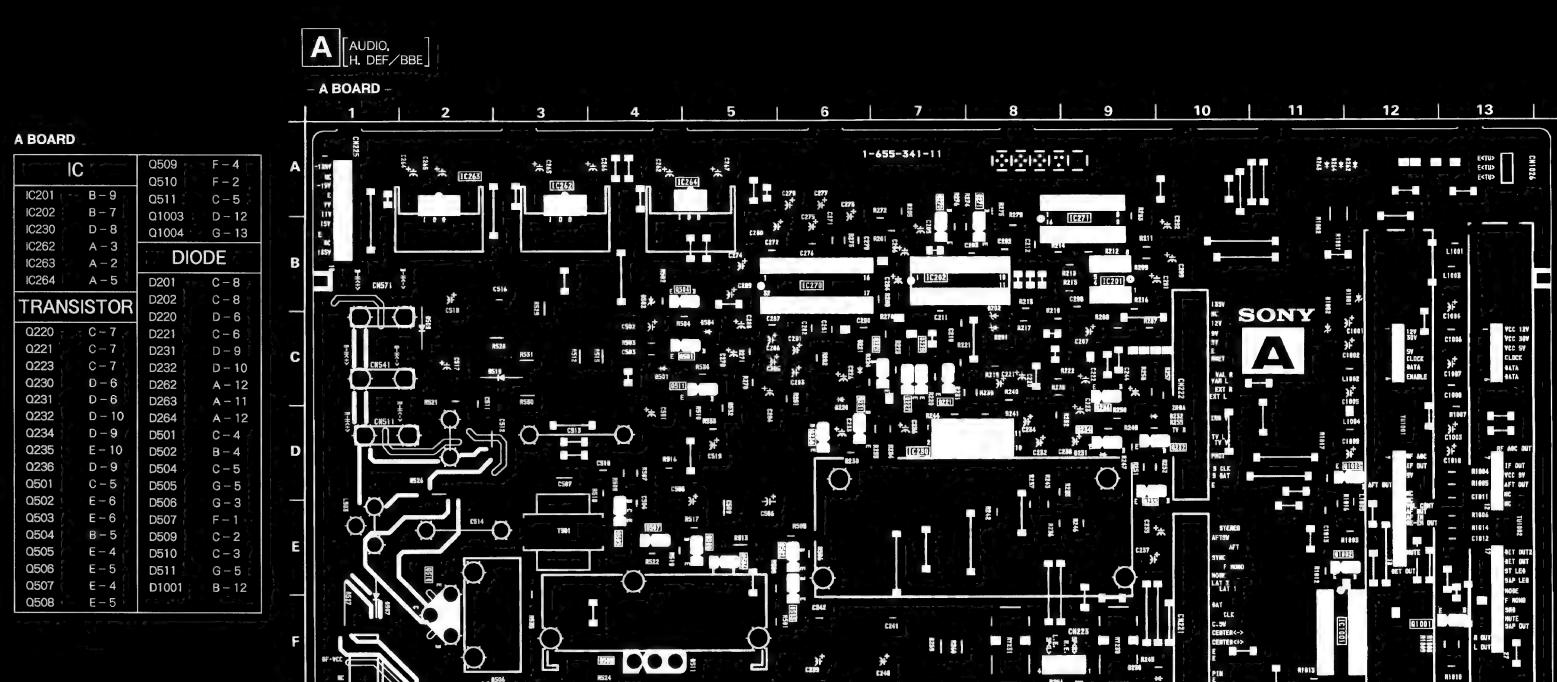
Note: The symbol display is on the component side.

The components identified by shading and mark  $\Lambda$ are critical for safety. Replace only with part number specified.

> The symbol———- indicate fast operating fuse. Replace only with fuse of same rating as maked.

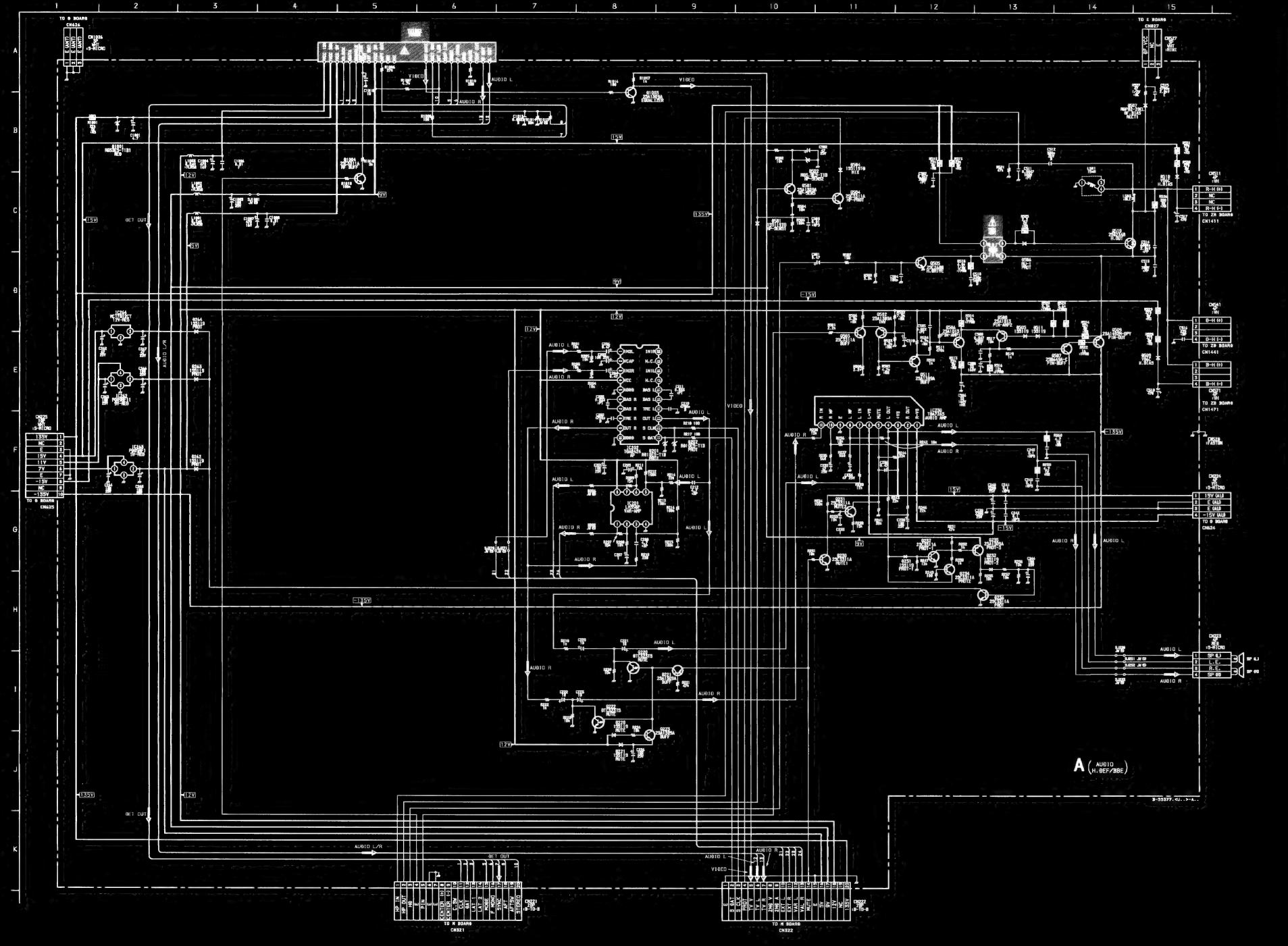
Note: Les composants identifiés per un tramé et une marque 🛕 sont critiques pour la sécurité. Ne les remplacer que par une pléce portant le numéro

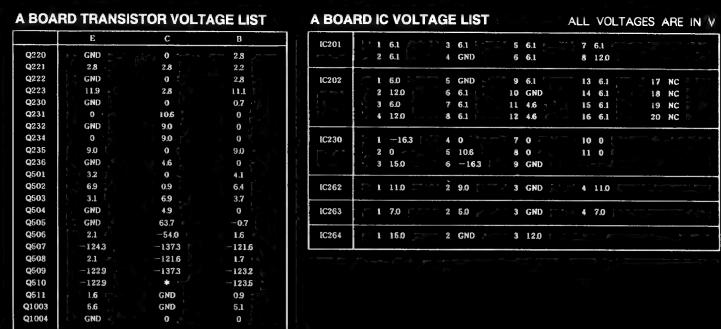
Le symbole indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.



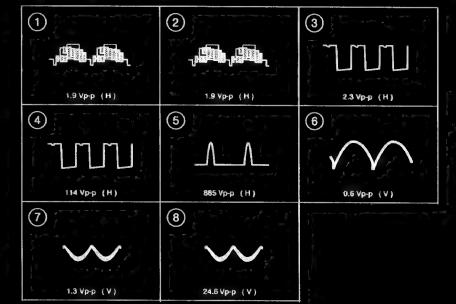
C(T)>

39 -- 37 ← 36 -



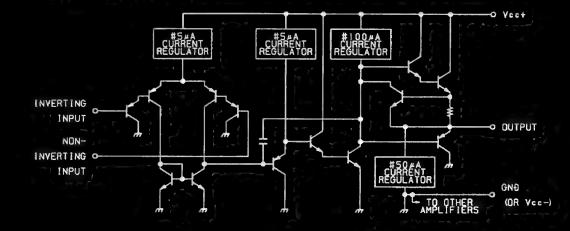


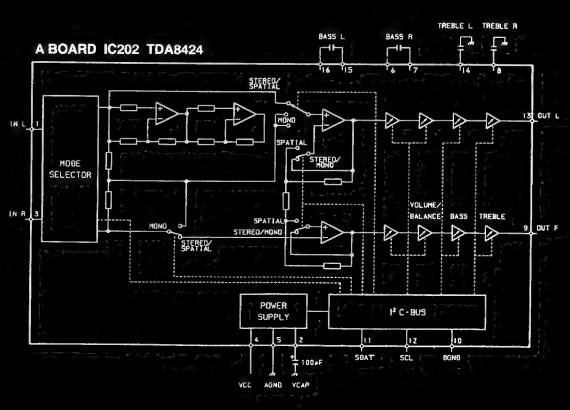
· A BOARD WAVEFORMS

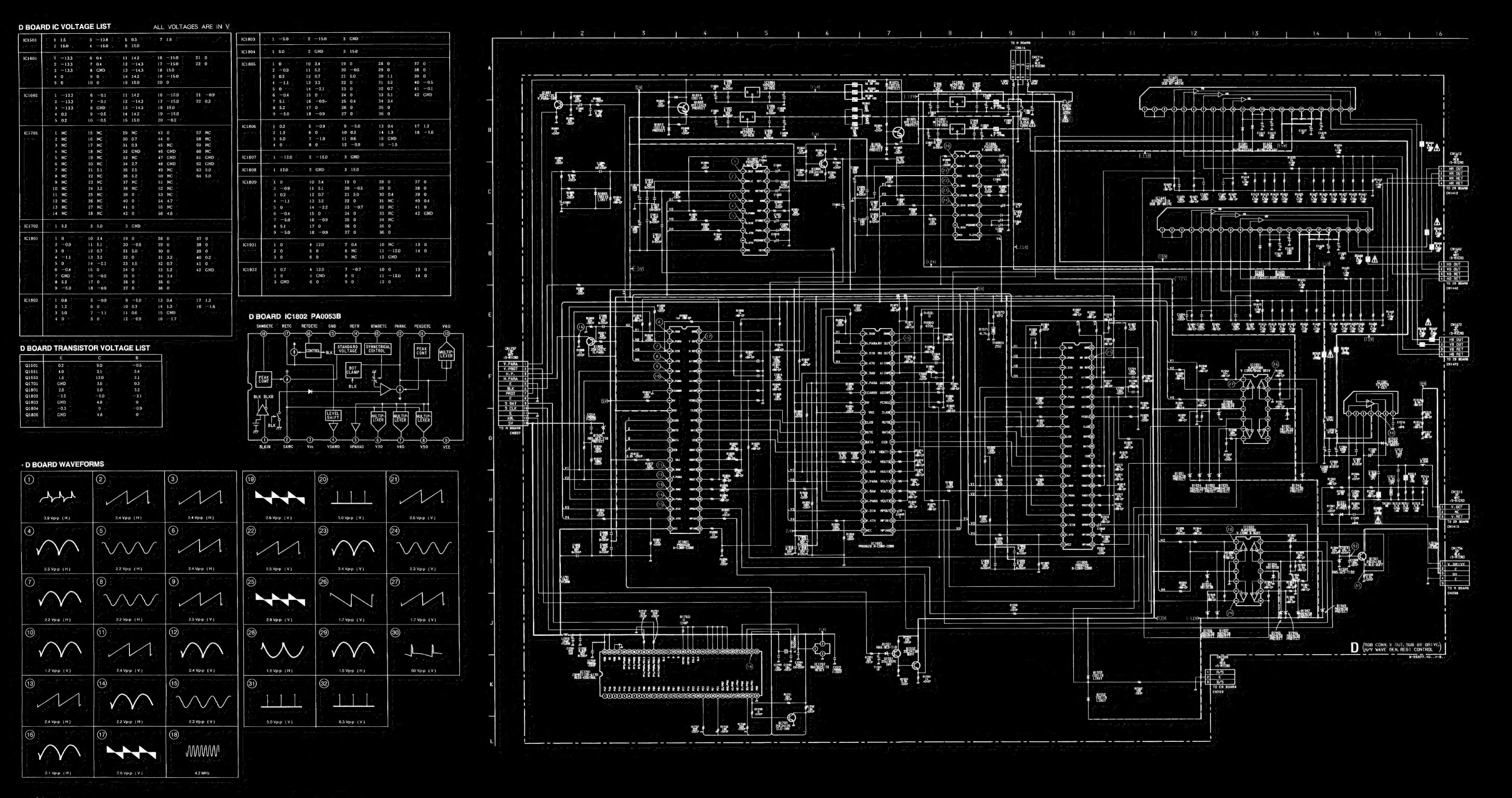


\*: MEASUREMENT IMPOSSIBILTY

### A BOARD IC201 LM358P







Schematic diagrams

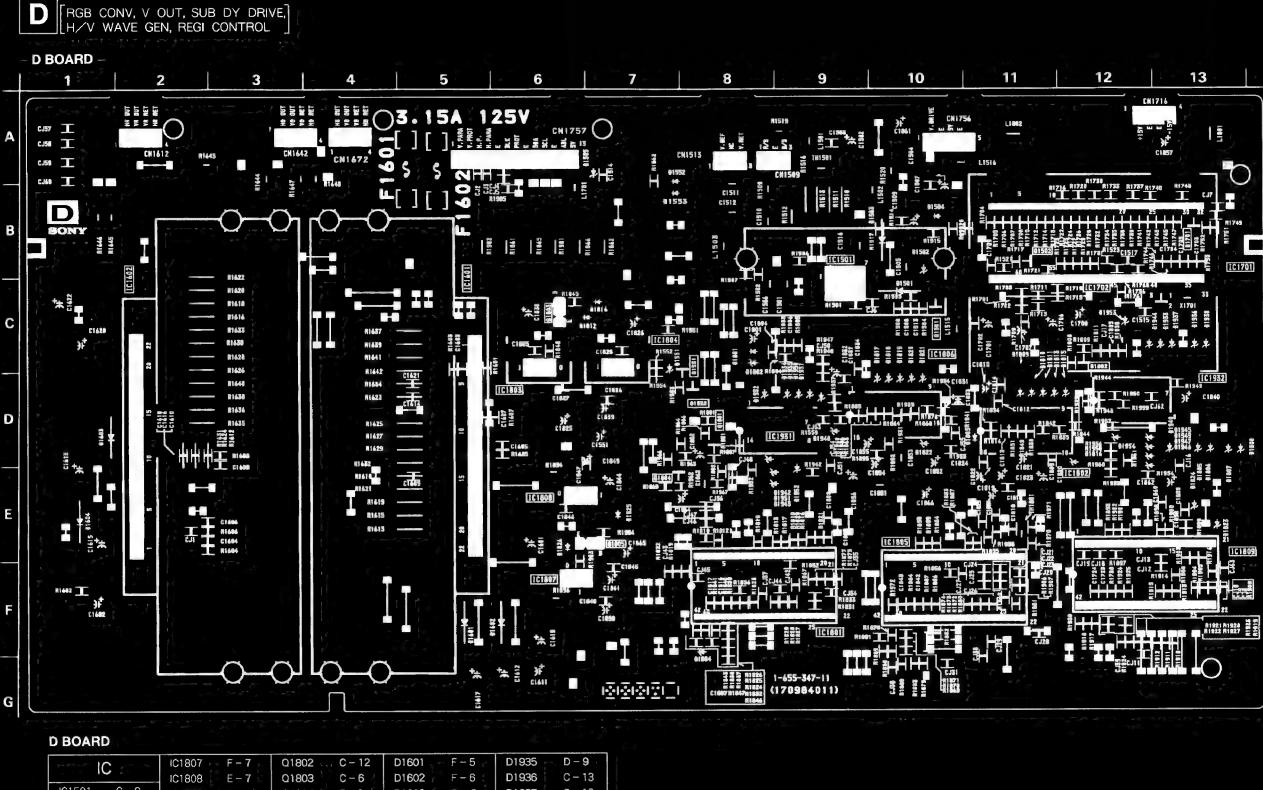
A board

D board →

46 —

.... 47

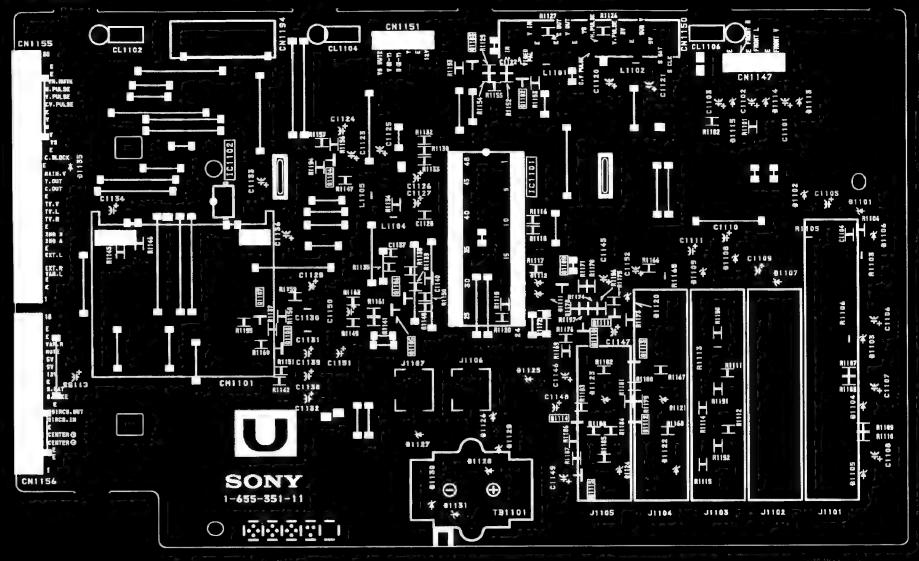
48

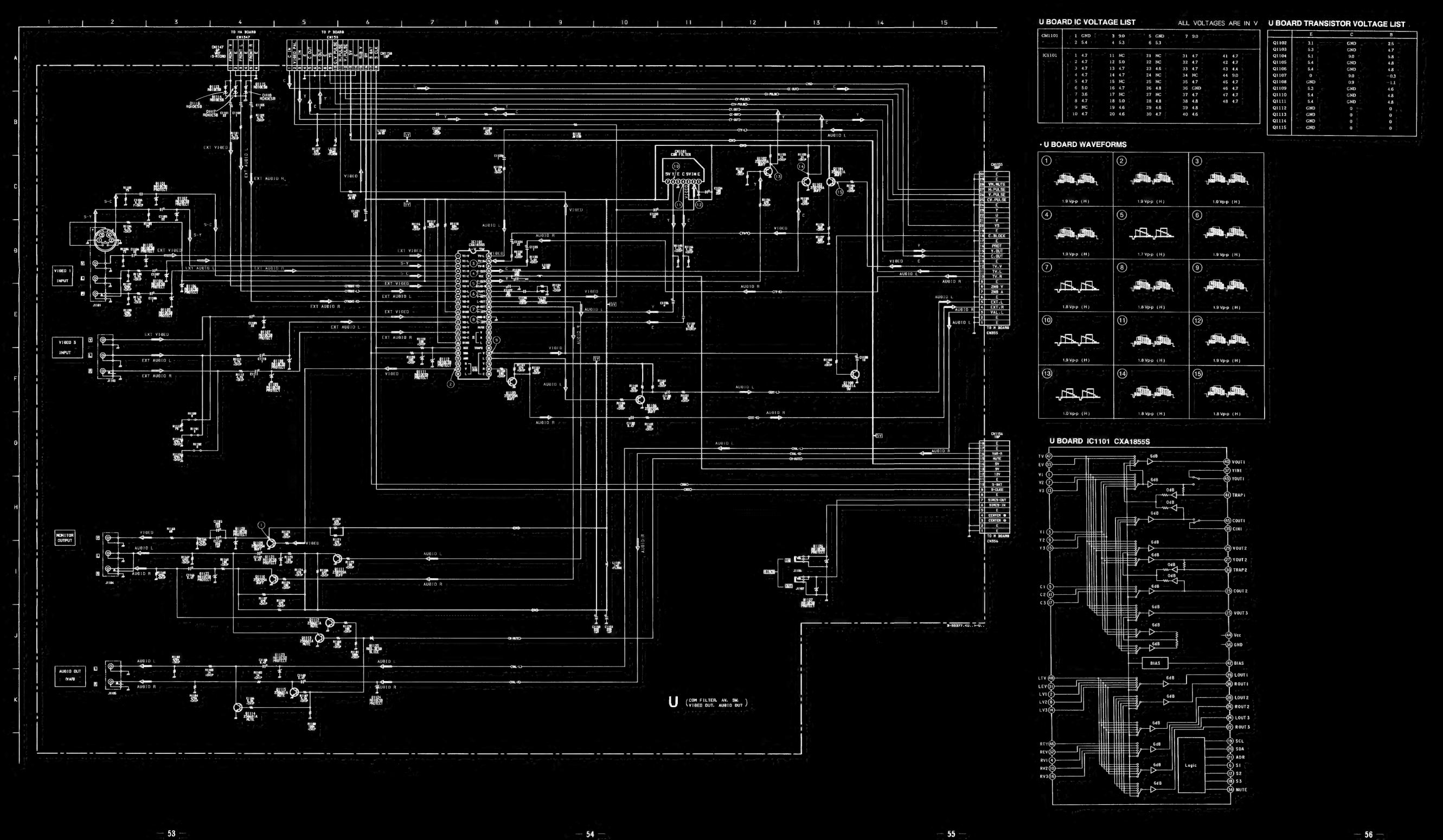


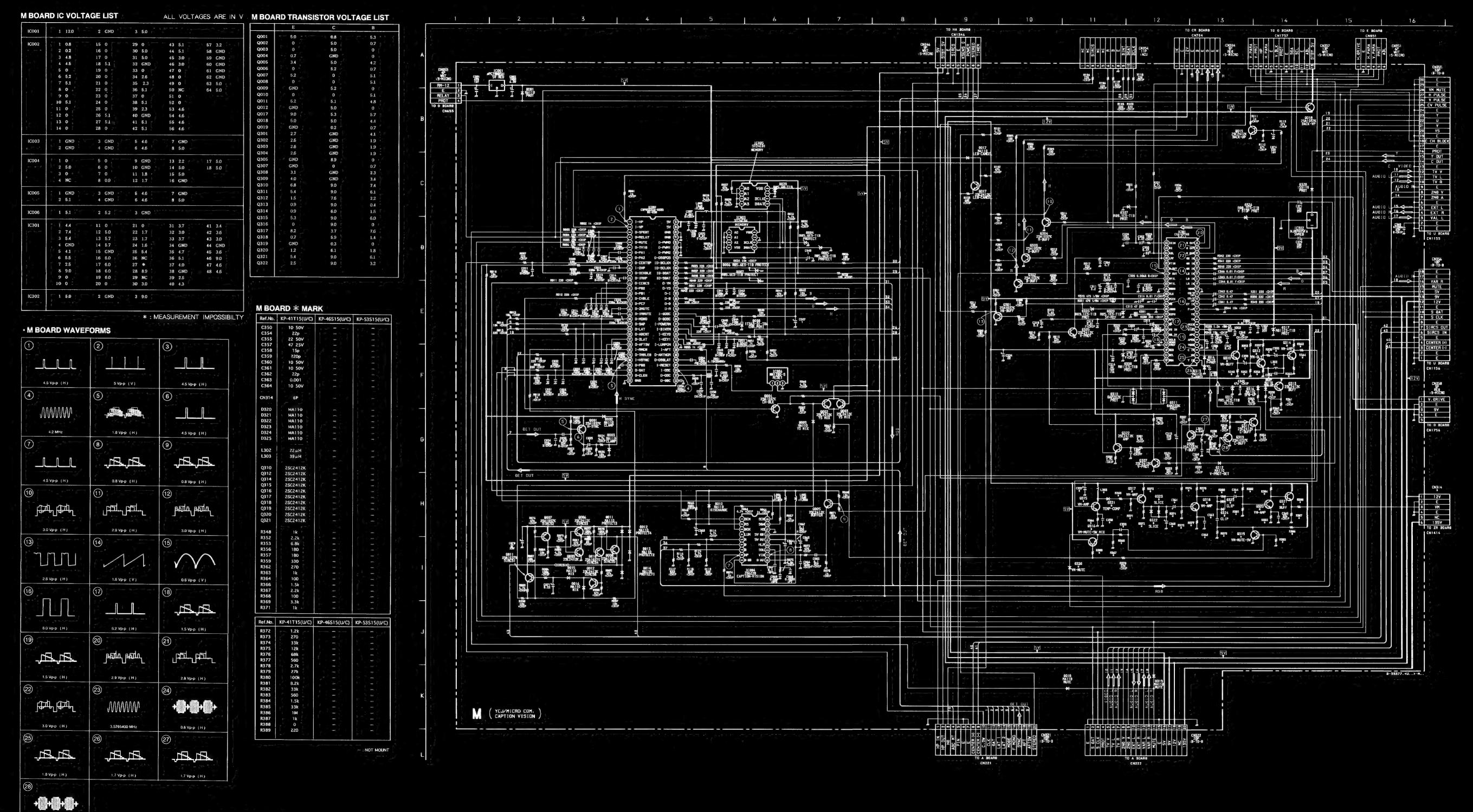
I IC	ICIBUT F F F	01002 C-12	D1001 1 - 3	D1933
	IC1808 E-7	Q1803 C-6	D1602 F-6	D1936 C-13
IC1501 y / C - 9 /	IC1809 F - 12	Q1804 E-8	D1603 D-2	D1937 C-13
IC1601 ( C-5 )	IC1931 D-9	Q1805 E-7	D1604 # 8 E - 1 3	D1942 E-9
IC1602 D-2	IC1932 D - 13	T DIODE 11	D1803 D-11	D1945 D-13
IC1701 B - 12	TRANSISTOR	DIODE	D1812   C-7	D1946 \ E - 13
IC1702   C - 12	I NAIVOIO I UN	D1501 - C-10	D1814 C-7	D1947 E - 13
IC1801 F - 9	Q1501 C-10	D1502 B - 10	D1825 E-7	D1948 D-9
IC1802 D - 12	Q1502 B - 11	D1503 B-10	D1826 E-6	D1949 D - 13
IC1803 D=6	01551 D - 8	D1505 A-6	D1827	D1951 💭 E-9 👊
IC1804 D - 7	Q1552 D-8	D1551 D-8	D1931 D-9	D1953 C-12
IC1805 F - 10	Q1701 B - 13	D1552 B-8	D1932 D-9	D1954 D - 12
IC1806 D - 10	Q1801 D-8	D1553 B-8	D1934 D-9	the same of the same of the



### - U BOARD -







- 59 -

- 57

Schematic diagrams

M board →

### **SPECIFICATIONS**

Projection system 3 picture tubes, 3 lenses, horizontal in-

line system

Picture tube 7 inch high-brightness monochrome

tubes (6.3 rester size), with optical coupling and liquid cooling system

Projection lenses High performance, large-diameter

hybrid lens F1.0

Screen size (measured diagonally)

 KP-41T15
 41 inches

 KP-46S15
 46 inches

 KP-53S15
 53 inches

Screen brightness

 KP-41T15
 1900 cd/m²

 KP-46S15
 1500 cd/m²

 KP-53S15
 1200 cd/m²

Television system Channel coverage American TV standards
VHF: 2-13 / UHF: 14-69 /

CATV: 1-125

Antenna 75 ohm external antenna terminal for

VHF/UHF

Inputs/output VIDEO IN 1

S VIDEO IN (4-pin mini DIN):

Y: 1 Vp-p, 75-ohms unbalanced, sync negative

C: 0.286 Vp-p (Burst signal) 75 ohms

VIDEO (phone jack): 1 Vp-p, 75-ohms

unbalanced, sync negative AUDIO (phone jacks):

500 mVrms (100% modulation)

Impedance: 47 kilohms

VIDEO INPUT 2 and VIDEO IN 3

VIDEO (phone jacks): 1 Vp-p, 75-ohms

unbalanced, sync negative AUDIO (phone jacks):

500 mVrms (100% modulation)

Impedance: 47 kilohms

MONITOR OUT VIDEO (phone jack): 1 Vp-p, 75-ohms

unbalanced, sync negative AUDIO (phone jacks):

500 mVrms (100% modulation)

Impedance: 10 kilohms AUDIO OUT (phono jacks): 900 mVrms (100% modulation)

Impedance: 5 kilohms

Speaker Full range speaker

100 mm (3.9 inches) diameter

Speaker output
Power requirement

7 W x 2 120 V, 60 Hz Power consumption 220 W

Standby mode: 4 W

	Dimensions (W/H/D)	Mass
KP-41T15	950 x 1,000 x 588 mm	51 kg
	(37 1/2 x 39 3/8 x 23 1/4 inches)	(112 lbs 7 oz)
KP-46S15	1,066 x 1,306 x 543 mm	70 kg
	(41 3/4 x 51 1/2 x 21 1/2 inches)	(154 lbs 5 oz)
KP-53S15	1,218 x 1,413 x 594 mm	75 kg
	(48 x 55 3/4 x 23 1/2 inches)	(165 lbs 6 oz)
_		

Supplied accessories Remote commander RM-Y118 (1)

Size AA (R6) battery (1)

Optional accessories U/V mixer EAC-66

Connecting cables RK-74A, VMC-810S/820S, YC-15V/30V,

VMC-720M

Video tray SU-PJT2 (For KP-46S15,

KP-53S15)

Stand SU-41X1 (For KP-41T15)

Contrast screen

SCN-41T1 (For KP-41T15) SCN-46X1 (For KP-46S15) SCN-53X1 (For KP-53S15)

Design and specifications are subject to change without notice.

### SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- 2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
- 6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified.
   Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

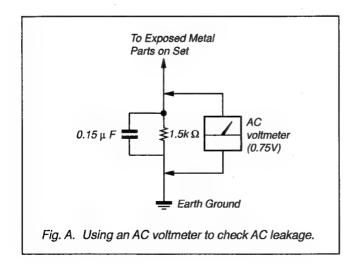
### **LEAKAGE TEST**

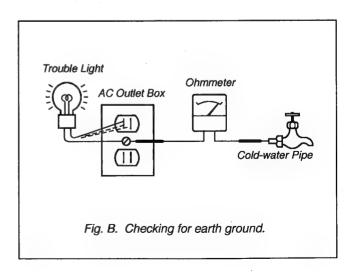
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to usc these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### **HOW TO FIND A GOOD EARTH GROUND**

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-l00 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)





### TABLE OF CONTENTS

Se	ction <u>Title</u>	Page	Sec	ction	Title	Page	
1	GENERAL			2-10-2	2. MIRROR COVER REMOVAL		
••	Step 1 : Installing the projection TV	5		2-10-2	(KP-46S15/53S15)	19	
	Step 2 : Connections			2-11	HIGH-VOLTAGE CABLE INSTALLATION	27	
	Step 3: Setting up the remote commander			2 11.	AND REMOVAL	19	
	Step 4: Setting up the projection TV automatically	0		2-12	PICTURE TUBE REMOVAL		
	(AUTO SET UP)	8		2 12.	TICTORE TOBE REMOVEE	17	
	Listening to surround sound (SURROUND)		3.	3. SAFETY RELATED ADJUSTMENTS			
	Selecting stereo or bilingual programs (MTS)						
	Setting daylight saving time (DAYLIGHT SAVING			DIAC	RAMS		
	Setting the clock (CURRENT TIME SET)		4.			2.0	
	Setting the timer to turn the projection			4-1.	Block Diagrams (1)		
	TV on and off (ON/OFF TIMER)	12			Block Diagrams (2)		
	Blocking out a channel (CHANNEL BLOCK)			4-2.	Circuit Boards Location		
	Customizing the channel number buttons			4-3.	Printed Wiring Board and Schamatic Diagram		
	(CH CAPTION/GUIDE)	13			A Board     D Board		
	Setting video labels (VIDEO LABEL)				• U Board		
	Displaying Caption Vision (CAPTION VISION/XD				• M Board		
	Operating video equipment				• P Board		
	Operating a cable box				• HA Board		
					• E Board		
2.	DISASSEMBLY				• G Board		
	2-1-1. REAR PLATE REMOVAL (KP-41T15)	16			• ZB Board		
	2-1-2. REAR PLATE REMOVAL (KP-46S15/53S				• ZG Board		
	2-2. CHASSIS ASSY REMOVAL				• ZR Board		
	2-3. SERVICE POSITION				• CR Board		
	2-4. G BOARD REMOVAL	17			• CG Board		
	2-5. D BOARD REMOVAL				• CB Board		
	2-6. U BOARD REMOVAL	17		4-4	Semiconductors		
	2-7. M BOARD REMOVAL	17		7 71			
	2-8-1. HA BOARD REMOVAL (KP-41T15)	18	5.	EXPL	ODED VIEWS		
	2-8-2. HA BOARD REMOVAL (KP-46S15/53S15	5) 18	-	5-1.	Cover (KP-41T15)	96	
	2-9-1. BEZNET REMOVAL (KP-41T15)	18		5-1. 5-2.	Cover (KP-46S15/53S15)	97	
	2-9-2. BEZNET REMOVAL (KP-46S15/53S15)	18		5-2. 5-3.	Chassis		
	2-10-1. MIRROR COVER REMOVAL (KP-41T15)	) 19		5-4.	Picture tube		
				J-T.	TAMES MALE CONTRACTOR		
			6.	ELEC	CTRICAL PARTS LIST	100	

### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESECOMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### (ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIR-CUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE. LE CHÁSSIS DE CE RECEPTEUR EST DIRECTEMENT RAC-CORDÉ Á L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE À SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNEIMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

### **SECTION1** GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

Connecting an antenna/cable TV system without a VCR

To cable or antenna

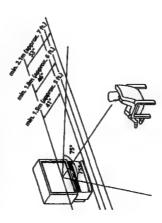
3

**Getting Started** 

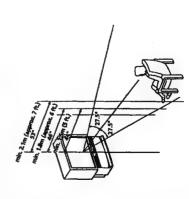
### the projection TV Step 1: Installing

For the best picture quality, install the projection TV within the areas shown below.

Optimum viewing area (Horizontal)

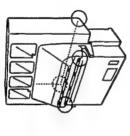


Optimum viewing area (Vertical)



## Carrying your projection TV

Be sure to grasp the portions indicated when carrying the projection TV, and to use more than two people.



## Preparing for your projection TV

Before you use your projection TV, adjust convergence. For the procedure, see "Step 4: Setting up the projection TV automatically (AUTO SET UP)" on page 12.

### Connections Step 2:

outdoor autenua with your projection TV, we recommend connecting to an outdoor antenna or a cable TV system for improved picture quality. Although you can use either an indoor antenna or

If your cable company requires you to connect a cable box, make the connection as follows:

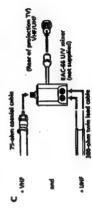
To cable box

### To an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directry to the terminal, follow one of the instructions below depending on your cable type.







- Most VIE/ULF contibuation attenties have a signal splitter. Remove the splitter before stacking the appropriate connection in you use the U/V mixer, snow and notes may appear in the picture when viewing cable TV channels over 37(W+1).

Getting Started | 5-EN

# Connecting an antennalcable TV system with a VCR

For details on connection, see the instruction manual of your VCR. Before connecting, disconnect the AC power cords of the equipment to be connected.

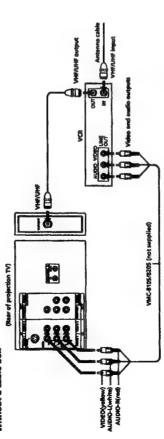
After making these connections, you will be able to do

- View the playback of video tapes
- Record one TV program while viewing another
- program

  Watch two TV programs at one time using a window picture (Picture-in-Picture)

## To a conventional VCR

### Without a cable box



Note

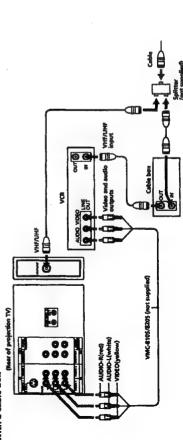
To connect a monaural VCR, connect the audio output of the

TOCR to AUDIO-L OAGONG) of VIDEO 1/3 IN on the projection

TV.

Do not connect the cable to the S VIDEO connector on the projection TV.

## With a cable box

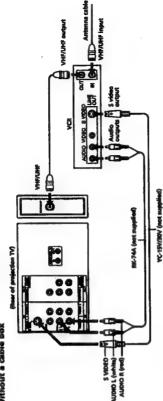


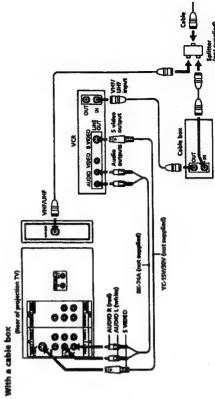
## To an S video equipped VCR If your VCR has an S video output jack, make the

connection as follows.

Whenever you connect the cable to the S VIDEO connector, the projection TV automatically receives S video signals.

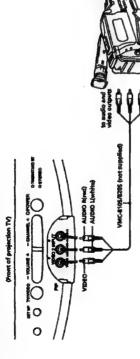
### Without a cable box





## Connecting a camcorder

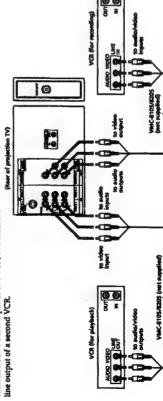
This connection is convenient for watching the picture from a camcorder.



To connect a monaural caracorder, connect the audio output of the caracorder to AUDIO L (MONO) of VIDBO 2 INPUT on the projection TV.

## Connecting two VCRs for tape editing

You can record input images displayed on the screen.
This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.

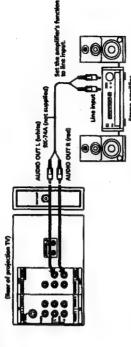


- Notes

   Do not charge the input signal while editing, as the output signal will also change.
   When connecting a single VCR to the projection TV, do not connect MONITOR DT to the VCR's line input, while at the same than connecting from the projection TV's VIDEO IN jacks to the VCR's line output.
   You can use the 5 video connector to connect a VCR for palyback and the composite video jack to connect a VCR for recording.

## Connecting an audio system

When connecting audio equipment, see page 24 for more information.



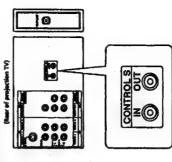
Note

• You can adjust the bass, treble and balance, or select surround
or an MTS (Ardischannel TV Sound) mode with the supplied
remote commander.

# Connecting other Sony equipment with CONTROL S jack

This feature allows you to control your projection TV and other Sony equipment with one remote

- To control other Sony equipment with the projection TV's remote commander, connect the input of the equipment to CONTROL SOUT jack on the projection TV.
- To control the projection TV with the remote communder of other Sony equipment, connect the output of the equipment to CONTROLS IN seck on the projection TV.



Getting Started | 9-EN

### Step 3: Setting up commander the remote

Insert one size AA (R6) battery (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.



- With normal use, the battery should last for approximately six
- If you do not use the remote communder for an extended if you do not use the remote the bettery to avoid possible damage from battery testage.

  Do not handle the remote commander roughly. Do not drop it,

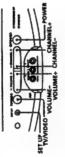
- atep on it or let it get wet.

  Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

### automatically (AUTO Step 4: Setting up the projection TV SET UP)

channels, adjusts the convergence and changes the on-screen menu language. To set up the TV manually, see "Presetting channels" (page 18), "Setting cable TV on or off" (page 14), "Adjusting convergence" (page 13) and "Changing the menu language" (page 15). If the TV is set to a video input, you cannot execute ALITO SET UP. Press TV/VIDEO so that a channel You can set up your projection TV essily by using AUTO SET UP feature. It presets all the receivable

(front of projection TV) number appears.



T Press POWER to turn the projection TV on.



2 Press SET UP on the front of the projection

SET UP ≥

AUTO AJUSTES : [CH-] HEGLAGE AUTO : [VCL+] AUTO SET UP : [CH-] Prant Mill in frit

If you prefer Spanish or French to English, you can change the on-screen menu language. Press CHANNEL – for Spanish or VOLUME+ for French. Press CHANNEL+ to start AUTO SET UP.



CONTINUE TO THOOPMAN

All of the menus will be set to the factory preset condition in the selected language. Getting Started | 11-EN

## 4 Press CHANNEL+ to preset channels.



TV starts scanning and presetting channels automatically. When all the receivable channels are "AUTO PROGRAM" appears on the screen and the stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CATV is set to ON nutomatically.

CONTINUE TO CONVENCENCE?

5 Adjust convergence.
(1) Press CHANNEL+.
The CONVERGENCE adjustment ecreen



(2) Press TV/VIDEO to select RED or BLUE.



NOL-1- === -1-101.4 MED FACH-TOTAL STATES

the line until it converges with the center green (3) Using CHANNEL+/- or VOLUME+/-, move



To move horizontal line up/down, press CHANNEL +/-. To move vertical line right/left, press VOLUME+/--

## (4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a

CONVERGENCE : BLUE

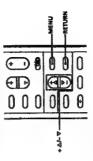


If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Press VOLUME in step 3. The functions and menus To preview the main functions (DEMO) are displayed one by one

## Erasing or adding channels

channels or add the channels you want. Preset channels during the day rather than late at night, when After AUTO SET UP you can erase unnecessary some channels may not be broadcasting.



The main menu appears.



■ Press + A or - V to move the cursor (P) to SET UP and press RETURN.

The SET UP menu appears.





Make sure the cursor (F) is beside CHANNEL ERASE/ADD and press RETURN. m

If the cursor is not beside CHANNEL ERASE/ ADD, press +  $\Delta$  or -  $\nabla$  to move the cursor and

press RETURN. The CHANNEL ERASE/ADD menu appears.



Erase and/or add the channel you want:

4

To erase an unwanted channel
(1) Make sure the cursor (P) is beside ERASE.

(2) Press CH + or – to select the channel you want to erase.





The indication "-" appears beside the channel number, showing that the channel is erased from the preset memory. (3) Press RETURN.



To add a channel that you want (1) Press +  $\Delta$  or -  $\nabla$  to select ADD. (2) Press 0 - 9 button to select the channel you want to add and press ENTER.







(3) Press RETURN.
The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.



5 To erase and/or add other channels, repeat step 4.

6 When you finish, press MENU.



If you erase or add a VHF or UHF channel, the cable TV channel with the name number is also erased or added, and

wher wersa.

• If more than 90 seconds elapse after you press a button, the menu disappears automatically.

### Adjusting convergence (CONVERGENCE)

The projection tube image appears on the ecreen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procudure only when you want to adjust it manually. correct this, adjust convergence.

1 Press MENU.

Selected channel num

2 Press +  $\Delta$  or -  $\nabla$  to move the cursor (P) to SET UP and press RETURN.

## Setting cable TV on or off

3 Press + Δ or – ∇ to move the cursor (P) to CONVERGENCE and press RETURN. The CONVERGENCE adjustment screen appears.

system, set CABLE to ON, the factory setting. If not, set If you have connected the projection TV to a cable TV CABLE to OFF.

You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procedure only when you want to set it manually.

1 Press MENU.

- E112

2 Press + △ or - ▽ to move the cursor (▶) to SET UP and press RETURN.

4 Press +  $\triangle$  or -  $\nabla$  to move the cursor (P) to the symbol showing the line you want to adjust, and press RETURN.

3 Press + △ or - ▽ to move the cursor (►) to CABLE and press RETURN.



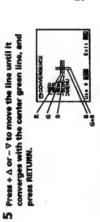
♣ Press + △ or - ▽ to select ON or OFF and press RETURN.

IRED: Red vertical line (left/right adjustment)
—RED: Red horborous line (luy/down adjustment)
IBLUE: Blue vertical line (left/right adjustment)
—BLUE: Blue horizontal line (luy/down adjustment)

Use # Cr Esit

A CONTROL OF THE CONT

U.s. 0 Ex | Ex | 1



To move up/right, press + A. To move down/left, press - V.

6 Repeat steps 4 and 5 to adjust other lines until all three lines converge and are seen as a white cross. Press MENU to return to the original screen.

5 Press MENU to return to the original screen. Note
I C.B.E. appears in black, the projection TV is set to a video
input and you cannot select CABLE. Press TV on the remote
commander so that a channel number appears.

Getting Started | 13-EN

14-EN | Getting Started

9

Getting Started | 15-EN

### Presetting channels

AUTO SET UP (page 11). Do this procedure only when you want to set it manually. You do not have to do this procedure if you execute You can preset TV channels easily by AUTO PROGRAM feature.

### 1 Press MENU.

 $\blacksquare$  Press +  $\triangle$  or -  $\nabla$  to move the cursor (P) to SET UP and press RETURN.



Press +  $\triangle$  or -  $\nabla$  to move the cursor ( $\blacktriangleright$ ) to AUTO PROGRAM and press RETURN.

ALTO PROBLAM

"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable disappears and the lowest numbered channel is displayed. channels are stored, "AUTO PROGRAM"

Press MENU to return to the original screen.

• If AUTO PROCRAM appears in black in the SET UP menu, the procedenty IV is set to a video input and you cannot select AUTO PROCRAM. Press TV/VIDEO or TV on the remote commander so that a channel number appears.

## Changing the menu language

You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procedure only when you want to set it manually. If you prefer Spanish or French to English, you can change the menu language.

### Press MENU.

- Press +  $\Delta$  or  $\nabla$  to move the cursor ( $\triangleright$ ) to SET UP and press RETURN. N
- Press +  $\triangle$  or  $-\nabla$  to move the cursor (P) to LANGUAGE and press RETURN. m



4 Press +  $\triangle$  or  $-\nabla$  to select the language and press RETURN.

The menu in selected language appears.



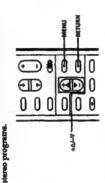
5 Press MENU to return to the original screen.

Note

- Even when you select Spanish or French language, certain parts
of the menus remain in English.

### surround sound Listening to (SURROUND)

The SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for



- 1 Press MENU.
- 2 Press + A or V to select AUDIO and press RETURN.
- Press + △ or ∇ to select SURROUND and press RETURN. m



Une # Call Exit Mil

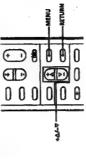
Press + Δ or ~ ∇ to select ON and press RETURN.



GAMDIO GAMDIO MANAGEMENT MANAGEME As to the Exit En

### bilingual programs Selecting stereo or (MITS)

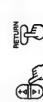
the choice to enjoy stereo sound or Second Audio
Programs (SAP) when available. The initial setting is
stereo sound (MAIIV). The Multichannel TV Sound (MTS) feature gives you



- 1 Press MENU.
- 2 Press +  $\triangle$  or  $-\nabla$  to select AUDIO and press RETURN.
- 3 Press +  $\triangle$  or  $\nabla$  to select MTS and press



MASSING OFF WAR SERVICE OF THE SERVI Use 0 Er 11 Er 11 4 Press + △ or – ♥ to select MAIN, SAP or



MONO and press RETURN.

Up. 6 ER E11 ED	To	Listen to stereo sound. The STEREO indicator on the projection TV lights up while a stereo broadcast is received.	Listen to bilingual programs. The sound of non-SAP programs will be mitted when SAP is calerted.
<b>&gt;</b>	Choose	MAIN	SAP

Reduce noise during stereo broadcasts. MONO

Operations | 23-EN Note

• Stereo and SAP sounds are subject to program source.

### saving time (раушент Setting daylight SAVING)

If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

Daylight saving start

• After the first Sunday in April, set DAYLIGHT

\$4 After the first Sunday in April, set DAYLIGHT

\$5 AVING to YES. Current time (page 26), On/ off

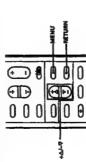
Timer (page 27) and Channel Block (page 28) settings

automatically move one hour alead.

Daylight saving end

• After the last Sunday in October, set DAYLIGHT

\$AVING to NO. Current time, On/off Timer and
Charnel Block settings automatically move one hour
back.



### 1 Press MENU.

2 Press + △ or - ▽ to move the cursor (►) to TIMERCH BLOCK and press RETURN.





### 3 Press + △ or - ▽ to select DAYLIGHT SAVING and press RETURN. OT IMENON BLOCK CUMBENT THE SET ON/OF THER CAMBE BLOCK DAYLIGHT SAVING:100





WED 12:00 # Exit E

4 Press + △ or - ▽ to select YES or NO and press RETURN.





To	Set for daylight saving start	Set for daylight saving end
Choose	XF.	0

- Δ-79+

## Setting the clock

4 Set the current time.
(1) Press RETURN to start setting the time.

(CURRENT TIME SET)

(2) Press + △ or – ¬ to set the day and press RETURN. 

Set the current time before using On/off Timer (page 27) and Channel Block features (page 28). For example, set the clock to 3:15 p.m., Monday.

0

Bot the day, Helt !

PEUN 12:00 AL

O CUMENT TIME SET PACH 12:00 M 500 the free free Extra (3) Using + A or - V and RETURN, set hour and minute in the same way as in step (2).
When you press RETURN after setting the minute, the clock starts.



2 Press + △ or - ▽ to select TIMER/CH BLOCK

1 Press MENU.

and press RETURN.

(F)



If you make a mistake while setting the time Press RESET while the CURRENT TIME SET menu is displayed, then repeat step 4.

To display the current time Press DISPLAY.

Use 6 CE Call

STIMENCH BLOCK POUNTERT TIME SET DAYLONT SAVING: -->-- AM

If you need to set DAYLIGHT SAVING, follow the procedure on the previous page.

If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

3 Make sure the cursor (b) is beside CURRENT TIME SET, and press RETURN.
If the cursor is not beside CURRENT TIME SET, press + A or - V to move the cursor and press RETURN.

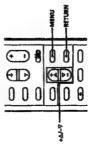


Operations | 25-EN

26-EN | Operations

### Setting the timer to turn the projection IV on and off (ON/OFF TIMER)

You can set the projection TV to turn on and off at the time you specify. Make sure the clock is set correctly. If it is not, set the clock first.



Press MENU.

Press +  $\Delta$  or -  $\nabla$  to select TIMENCH BLOCK and press RETURN. Press +  $\Delta$  or -  $\nabla$  to select ON/OFF TIMER and press RETURN.





Selest ale restant ma BON/OFF TIMER

(1) Press + △ or - ♥ to select program 1 or 2 and 4 Enter the ON/OFF TIMER setting. press RETURN. (2) Press +  $\Delta$  or -  $\nabla$  to set the days and press RETURN. Each time you press +  $\Delta$  or -  $\nabla$ , the EVERY SUN-SAT→EVERY MON-FRI→
SUNDAY→MONDAY→...→SATURDAY→ EVERY SUNDAY→EVERY MONDAY → days cycle as shown below. 







minute) that you want to turn on the projection TV and press RETURN. Press + △ or - ▼ to set the time (hour then



1. EVERY SUBLISAT
7:30/ff 1h CH
8. SPERY
SMENU

GON/OFF TIMER

Bet the Franklin

You can set the hour duration by one hour up to (4) Press + A or - W to set the hour duration and a maximum of six hours. press RETURN.





(5) Press +  $\Delta$  or -  $\nabla$  to select the channel and press RETURN.





The TIMER/STAND BY indicator on the projection

5 To set the other program, press RETURN and

One minute before the projection TV switches to turn off, a message "TV will turn off." is displayed on the repeat step 4.

To cancel the timer

Press RESET on the remote commander

If you umplug the projection TV or a power interruption occurs, ON/OFF TIMER settings will be erased. Reset that current time, then set the timer.

channel (CHANNEL BLOCK) **Blocking out a** 

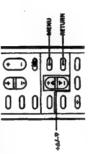
minute) that you want to start blocking the channel and press RETURN.

(3) Press + △ or - ♥ to set the time (hour then

555 Fredericken.

watching unsuitable programs.

Make sure the clock is set correctly. If it is not, set the clock first (page 26). This feature allows you to prevent children from



1. PASTY BATURDAY 16:30% 12h CH---

Sel'8'ster "Paritie

Press MENU.

Press + Δ or − ∇ to select TIMEIVCH BLOCK and press RETURN. ~

Press + △ or - ▽ to select CHANNEL BLOCK and press RETURN. m





Enter a CHANNEL BLOCK setting. (1) Press +  $\Delta$  or –  $\nabla$  to select program 1 or 2 and press RETURN. 4

(2) Press + ∆ or − V to set the days and press
RETURN. Each time you press + ∆ or − V, the
days order as shown below.
EVERY SUN-SAT.→EVERY MON-FR!→
SUNDAY.→MONDAY.→...→SATURDAY
EVERY SUNDAY.→EVERY MONDAY.→
EVERY SATURDAY





1. EVERY BATUROAY
12 : 90.48 -- A CH-DOMMIEL BLOCK

(4) Press  $+ \Delta$  or  $- \nabla$  to select the hour duration you set, the message "BLOCKED" appears and the picture is blocked and the sound is muted. (5) Press + A or ~ V to select the channel and press RETURN. If the CHANNEL BLOCK and ON/OFF TIMER settings are overlapped, the later time setting has priority over the other setting. If you select the blocked channel during the time you Each time you press RETURN, the hour duration increases by one hour up to a want to block and press RETURN. maximum of 12 hours. 

P. DVENY SATURDAY P. TO SON 12h OH 38 P. TO SON 12h OH 38 DARENU

GCHANNEL BLOCK

Use e m Enit

Press RESET on the remote commander.

To cancel a CHANNEL BLOCK setting

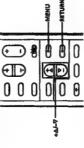
Operations | 27-EN

28-EN | Operations

### **buttons** (CH CAPTION/ **Customizing the** channel number GUIDE)

You can choose up to 12 channels, caption each channel, and sasign a specific channel number button channel, each channel. This feature allows you to select your favorite channels essily by name. For example, you can name channel 20 "ESFN," and assign the channel number 4 button to it.

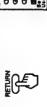
## Setting captions to favorite channels

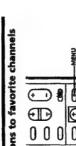


1 Press MENU.

and press RETURN







Z Press + △ or - ▽ to select SET UP and press RETURN. Press + △ or - ♥ to select CH CAPTION/GUIDE



0000

4 Press RETURN again.



Mark 0000 BCH CAPTION/GUIDE

Press +  $\Delta$  or -  $\nabla$  to select the channel that you want to caption and press RETURN.

ø



7 Enter the letters or numbers (up to four) to caption the channel:

Each time you press  $+ \Delta$  or  $-\nabla$ , the letter (number) changes as shown below. (number).

Press + △ or - ∇ to select the first letter



(2) Press RETURN



CH CAPTIONIG

(3) Repeat steps (1) and (2) to select the remaining letters (numbers) and press RETURN.



(continued) Operations | 29-EK

## 8 Repeat steps 4 to 7 to caption other channels.

Setting video labels

(VIDEO LABEL)

To erase a caption Press RESET after step 4.

Press +  $\Delta$  or  $-\nabla$  to select a channel guide number button and press RETURN. Each time you press +  $\Delta$  or  $-\nabla$ , the channel positions change to red in turns. The channel number button you select will be the one you press

to call up your favorite channel.

The position number you already selected appears in yellow.

If the CH CAPTON/GUIDS menu appears in back, the
projection TV is set as a video injust, and you connot sefert CH
CAPTON/GUIDS. Press TV so their a channel number

appears.
If more than 90 seconds elapse after you press a button, the

This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.

### 10/04 Selecting a captioned channel 0 0

The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons. Press CH GUIDE.

3 Press + △ or – ♥ to select VIDEO LABEL and press RETURN.

A CONTROL OF THE CONT

2 Press +  $\Delta$  or -  $\nabla$  to select SET UP and press

RETURN.

1 Press MENU.



Use 8 Est Extt 4 Press + △ or - ¬ to select the input mode you want to label and press RETURN.

2 Press a channel number button, the DISPLAY or ENTER button to select the

channel you want.



To cancel the CHANNEL GUIDE menu Press CH GUIDE again.



30-EN | Operations

### Operations | 31-EN

Press +  $\triangle$  or -  $\nabla$  to select the label and press RETURN.



Use 0 Est E.11 ES VIDEO 3: VID

Each time you press +  $\Delta$  or -  $\nabla$ , the label changes as shown below.

VIDEO 1-5-VIDEO-BETA-8mm-VH5-LD-DSS

VIDEO 2→BETA→8mm→VHS→LD→D6S VIDEO 2

VIDEO 3--BETA--8mm--VHS--LD--DSS VIDEO 3

6 Repeat steps 4 and 5 to label other input modes.

If more than 90 seconds elapse after you press a button, the menu disappears automatically.

### Displaying Caption Vision (CAPTION VISION (SQX

Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. CC1, CC2, CC3 or CC4 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CCI for most

programs.)
TEXT3, TEXT3 or TEXT4 shows you text, that is information presented using either half or the whole screen. It is not usually related to the program.

1 Press MENU.

Z Press + A or ~ V to select CAPTION VISION/ XDS and press RETURN.





Press +  $\Delta$  or -  $\nabla$  to select the caption type The selected caption type is colored green. and press RETURN.

m





(continued)

## Operating video equipment on-screen information -XOS\*-Caption Vision or Text Each time you press DISPLAY, the display changes as

Press DISPLAY on the remote commander. To turn off the captions or text

You can operate a piece of video equipment that has an infrared remote sensor with the supplied remote commander. Before operating, set the manufacturer's

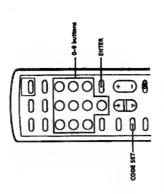
Some programs are broadcast with XDS service which shows a network name, program name, program length, call letters and dime in abow data. When you select XDS with the DISPLAY button, This information will be displayed on the screen if the broadcaster offers this service.

"DISPLAY OFF" goes off after three seconds.

— DISPLAY OFF ←

Setting the manufacturer's code

Captions may appear with a white box or another error instead of a certain word. Poor neception of TV programs can also cause errors in Closed Caption.



While pressing CODE SET, press 0 – 9 to enter the manufacturer's code number (see the chart in the right column) and press ENTER. For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.

## Manufacturer code numbers

	Andrews and
Assuracturer	Code number
SONY	01, 02, 03, 04
ANON	શ્
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	82
GENERAL ELECTRIC	92,08
COLDSTAR	รถ
HITACHE	07, 08, 36
NO.	16, 35
MAGNAVOX	62,06,09
MITSUBISH	18, 19, 26, 27
MULTITECH	22
CHO	16, 23, 31
PANASONIC	05,06
PHILCO	05,06
PHILIPS	G5, 06, C3
DUASAR	95,06
RCA	90,00
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
HINTOM	ま
SYLVANIA	05, 06, 09
SYMPHONIC	82
TEICNIKA	28, 23
TOSHIBA	20,21
TOTE VISION	ង
	44

- If more than one code number is listed, by entering them one by one, until you come to the correct code for your equipment.

  In some rare stack, you may not be able to operate your non-slowy video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.

  The code numbers for Sony equipment are assigned at the factory as follows:

  Pare, ED Bes WCRS.

  Of VES VCR

  Of (preset code for this remote
  - 03 02 U3 (preset code for this remote commander) 04

MDP

When you remove a battery from the remote commander, the code may revert to Di. Reset the codes each time you replace the battery, if necessary.

## Operating video equipment

		buttons	
0 ( 0 ( 0 (	) =() ± ) =() ± ) =() ±	0 0	SONY

Use the video operating buttons on the remote commander to operate the video equipment.

Departed of a control of a cont		Operating a VCR Commander	To turn on or off Press VIDEO POWER	To change channels Press CH +/-	Press • and REC simultaneously	Press 💌	A See See See See See See See See See Se	o fast forward Press 🍑	rewind the tape Press 44	Press II	To search the picture Press PP or A during
--	--	---------------------------	-------------------------------------	---------------------------------	--------------------------------	---------	--	------------------------	--------------------------	----------	--

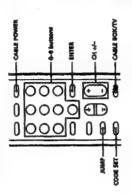
Buttons on the remote commander	Press 🚩	Press III	Press II  To resume normal playback, press again.	Keep pressing beb or edduring playback. To resume normal playback, release the button.	Press CH +/-
Operating a laser-disc	To play	To stop	To pause	To search the picture forward and backward	To search the chapter forward and backward

Mote

If the video equipment does not have a certain function, the
corresponding button on this remote commander will not
operate.

Operating a cable

You can operate a connected cable box with the supplied remote commander. Before operating, set the manufacturer's code number.



Set the CABLE BOXTV selector to CABLE BOX.



2 While pressing CODE SET, press 0 – 9 to enter the manufacturer's code number (see the chart below) and press ENTER. For example, to operate a Zenith cable box, press 6 and 8 and press ENTER.



3 Use CABLE POWER and the projection TV control buttons (0 – 9, ENTER, JUMP and CH +/-) to operate the cable box.





To operate the projection TV Set the CABLE BOX/TV selector to TV. Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box Refer to the operating instructions that come with the cable box.

## Manufacturers and code numbers (cable box)

Code number	60, 61, 62, 63, 64, 65, 73	96,70	ANTA 66, 67	4,4	87
Manufacturer	JERROLD	MONEER	SCIENTIFIC ATLANTA	TOCOM	HENER

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.

  If you enter a new code number, the code number you previously entered at that setting is enseed.

  In some sere cases, your equipment may use a code that is not proviously entered at that setting is enseed.

  In some sere cases, your exple box with the supplied remote control with this remote commander and you may not be able to operate your cable box with the supplied remote control unit.

  When you trenove a battery from the remote commander, the code may be enseed. Reset the code each time you replace the battery, if necessary.

Operations | 33-EN

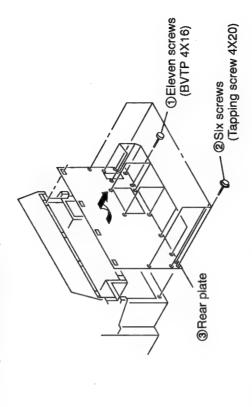
34-EN | Operations

### DISASSEMBLY **SECTION 2**

### **REAR PLATE REMOVAL** (KP-46S15/53S15) 2-1-2.

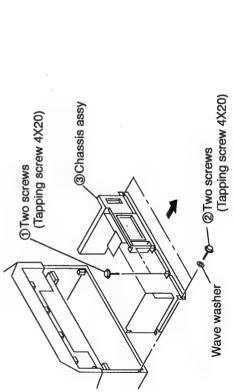
2-1-1. REAR PLATE REMOVAL

(KP-41T15)

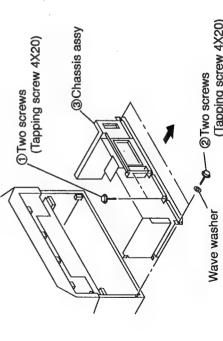


## · Remove the chassis assy (Refer to 2-2.) 2-3. SERVICE POSITION

Chassis assy



# 2-2. CHASSIS ASSY REMOVAL

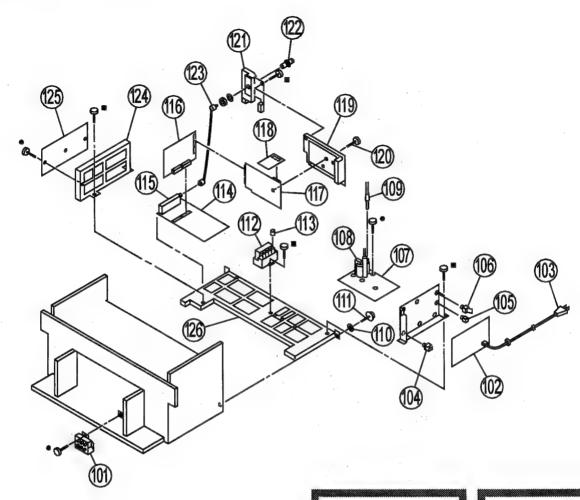


①Twelve screws (BVTP 4X16)

②Rear plate (41)

### 5-3. CHASSIS

●: 7-685-648-79 ■: 7-685-663-79 + BVTP 3×12 + BVTP 4×16



The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

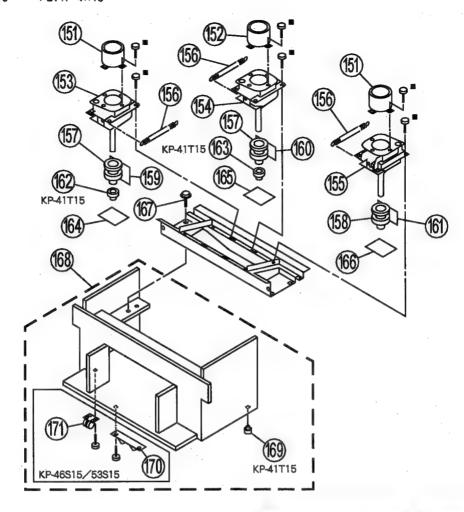
Les composants Identifies par une trame et une marque \(\Lambda\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO. PART NO.	DESCRIPTION REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	RESISTOR ASSY (HIGH-VOLTAGE) G BOARD, COMPLETE CORD. POWER (WITH NOISE HILTER) UAY125* HOLDER, PC BOARD HOLDER, PCB	116 117 118 119	*A-1306-498-A *A-1373-511-A	M BOARD, COMPLETE (KP-41T15) M BOARD, COMPLETE (KP-46S15/53S1 U BOARD, COMPLETE P BOARD, COMPLETE TERMINAL BOARD (A)	5)
106 *3-703-141-00 107 *A-1341-885-A 108	HOLDER, PCB E BOARD, COMPLETE TRANSPORMER ASSY, FLYBACK (MX-2631/A4S) LEAD ASSY, NV WASHER, WAVE	120 121 122 123 124	4-041-165-01 4-047-952-01 1-561-306-00 1-556-945-21 *4-047-950-01		
113 4-373-137-01	SCREW (4X20), TAPPING BLOCK ASSY, HIGH VOLTAGE CAP (Z), RUBBER A BOARD, COMPLETE THNEE BTF-WA402	125 126	*A-1346-296-A *4-047-949-01	D BOARD, COMPLETE BRACKET, MAIN PC BOARD	

### 5-4. PICTURE TUBE

**■**: 7-685-663-79

+ BVTP 4×16



The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION	REMARK
152 153 A 154 A 155 A 156	4-034-057-01 4-034-057-11 8-736-080-05 8-736-082-05 8-736-078-05 8-736-079-05 8-736-081-05 4-048-142-01	LENS (LINNIT) LENS (LINNIT) PICTURE TUBE OTMAB5(R) (I PICTURE TUBE OTMAB5(B) (I PICTURE TUBE OTMAB5(B) (I PICTURE TUBE OTMAB6(B) (I PICTURE TUBE OTM	(P=53S15) (P=41115/46S15)	200000000000000000000000000000000000000	A. 1-452-790-21 A. 1-452-790-11 *A-1331-408-A *A-1331-409-A *A-1331-410-A 4-041-164-11 *X-4032-547-1 *X-4032-615-1 *X-4032-616-1	NECK ASSY (KP-41715) NECK ASSY (KP-41715) CR BOARD, COMPLETE CG BOARD, COMPLETE CB BOARD, COMPLETE SCREW (4X20), TAPPING CABINET ASSY, BOTTOM CABINET ASSY, BOTTOM CABINET ASSY, BOTTOM	(KP-41T15) 169 (KP-46S15) 120,121
158 ₺	8-451-463-21	DY Y829PAZN2 (B)	ALLERIA YES	169 170	4-047-987-01 4-048-175-01	FOOT (KP-41T15)	SS15/53S15)
160 <b>*</b>	A-1390-487-A A-1390-513-A A-1390-489-A A-1390-512-A A-1390-491-A	ZR BOARD, COMPLETE (KP-4: ZR BOARD, COMPLETE (KP-4: ZG BOARD, COMPLETE (KP-4: ZG BOARD, COMPLETE (KP-4: ZB BOARD, COMPLETE	6S15/53S15) 1T15)	171	4-040-755-01		746S15/53S15)



### SECTION 6 ELECTRICAL PARTS LIST

### NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

### RESISTORS

- All resistors are in ohms.
- F: nonflammable

When indicating parts by reference number, please include the board name.

• The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
	*A-1195-062-A	P BOARD, COMPLETE			C3249 C3250 C3251 C3252	1-163-117-00 1-163-113-00 1-164-232-11 1-163-103-00	CERAMIC CHIP 100PF CERAMIC CHIP 68PF CERAMIC CHIP 0.01MF CERAMIC CHIP 27PF	5% 5% 10% 5%	50V 50V 50V 50V
C3201	<cap 1-104-664-11</cap 	ACITOR> ELECT 47MF	20%	16V	C3253	1-163-101-00	CERAMIC CHIP 22PF CERAMIC CHIP 0.001MF	5% 5 <b>%</b>	50V 50V
C3203 C3204 C3205 C3206	1-164-004-11 1-126-964-11 1-126-964-11 1-126-964-11	ELECT 47MF CERAMIC CHIP 0.1MF ELECT 10MF BLECT 10MF BLECT 10MF	10% 20% 20% 20%	25V 50V 50V 50V	C3255 C3256 C3257	1-163-101-00 1-164-232-11 1-163-117-00	CERAMIC CHIP 22PF CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF	5% 10% 5%	50V 50V 50V
C3207 C3208				50V 50V	C3258 C3259	1-163-113-00 1-163-111-00 1-163-119-00	CERAMIC CHIP 68PF CERAMIC CHIP 56PF CERAMIC CHIP 120PF	5% 5% 5% 5%	50V 50V 50V
C3209 C3210	1-126-962-11 1-104-664-11	BLECT 3.3MF ELECT 47MF BLECT 3.3MF	5% 5% 20% 20% 20%	50V 16V	C3261	1-163-141-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5%	50V 50V
C3213	1-164-346-11	CERAMIC CHIP INF	20%	16V	C3265	1-163-141-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF	5%	50V 50V 50V
C3214 C3215 C3216	1-164-346-11 1-164-346-11 1-164-005-11	CERAMIC CHIP 1MF		16V 16V 25V	C3267	1-163-141-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5%	50V 50V
C3217 C3218	1-164-346-11	CERAMIC CHIP IMP	0.084	16V	1 C3270	1-163-141-00 1-165-319-11	CERAMIC CHIP 0.1MF	5%	50V 50V
C3219 C3220 C3221	1-126-941-11 1-164-346-11 1-164-346-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF	20%	16V 16V 16V	C3272	1-165-319-11 1-165-319-11 1-163-109-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 47PF	5%	50V 50V 50V
U3223	1-164-336-11	CERAMIC CHIP 0.33MF		25V 25V	C3274 C3275	1-163-101-00 1-163-101-00	CERAMIC CHIP 22PF CERAMIC CHIP 22PF	5% 5%	50V 50V
C3224 C3225 C3226	1-164-222-11 1-164-222-11 1-164-005-11	CERAMIC CHIP 0.33MF CBRAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.47MF CERAMIC CHIP 1MF		25V 25V 25V	C3276 C3277 C3278	1-163-111-00 1-163-101-00 1-163-101-00	CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 56PF CERAMIC CHIP 22PF CERAMIC CHIP 22PF	5% 5% 5% 5%	50V 50V 50V
C3227 C3228	1-164-346-11	CERAMIC CHIP 1MF CERAMIC CHIP 100PF	5%	50V	C3279 C3280	1-163-141-00 1-126-964-11	CERAMIC CHIP 0.001MF ELECT 10MF		50V 50V 16V
C3229 C3230 C3231	1-163-141-00 1-163-125-00	CERAMIC CHIP 100PF CERAMIC CHIP 10PF CERAMIC CHIP 0.001MF CERAMIC CHIP 220PF CERAMIC CHIP 100PF	5% 5%	50V 50V	13282				194
C3232				50V			INECTOR>	ND 40D	
C3233 C3234 C3235	1-164-232-11	CERAMIC CHIP O OIME	107	50V 50V 50V	CNISO	1-573-297-21	CONNECTOR, BOARD TO BOAR	(U 18P	
C3236 C3237	1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 10% 10%	50V 50V		<d10< td=""><td></td><td></td><td></td></d10<>			
C3238 C3239	1-163-101-00	CERAMIC CHIP 22PF CERAMIC CHIP 0.001MF CERAMIC CHIP 22PF		50V 50V	D3203	8-719-404-46	DIODE HVU359TRF DIODE MA110 DIODE RD10SEB2		
C3240	1-163-103-00	CERAMIC CHIP 27PF	5%	50V 50V	D3209	8-719-110-17	DIODE RD10SEB2		
C3242			10%	50V		<10	>		
	1-163-113-00		5% 5% 10%	50V 50V 50V		0 8-759-288-13 1 8-759-093-29			
C3246 C3247	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V 50V	1 C320	2 8-759-093-28 3 8-759-093-28	IC MB40176PF-G-BND-EF IC MB40176PF-G-BND-EF		
C3248	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	10320	4 8-759-093-25	IC MB3512PFQ		



REF.NO. PART NO.	DESCRIPTION		REM	IARK	REF.ÑO.	PART NO.	DESCRIPTION				REMARK
IC3205 8-759-243-19	IC TC7SU04F			***************************************	R3239	1-216-049-00 1-216-043-91 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 560 2.2K 1K	5% 5% 5%	1/10W 1/10W 1/10W	
<c01< td=""><td>L&gt;</td><td></td><td></td><td></td><td>R3242</td><td>1-216-049-00</td><td>METAL GLAZE</td><td>1 K</td><td>5%</td><td>1/10W</td><td></td></c01<>	L>				R3242	1-216-049-00	METAL GLAZE	1 K	5%	1/10W	
L3201 1-410-470-11 L3202 1-408-424-00 L3203 1-408-424-00 L3204 1-410-476-11 L3205 1-410-470-11	INDUCTOR 10UH INDUCTOR 180U INDUCTOR 180U INDUCTOR 33UH INDUCTOR 10UH	H H			R3244 R3245 R3246	1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100 6.8K 3.9K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	INDUCTOR 33UH INDUCTOR 33UH INDUCTOR 33UH				R3249 R3250 R3251		METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 560 1K	5% 5%	1/10W 1/10W 1/10W 1/10W	
<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R3253 R3254</td><td>1-216-065-00 1-216-043-91</td><td>METAL GLAZE METAL GLAZE</td><td>4.7K 560</td><td>5% 5%</td><td>1/10W 1/10W</td><td></td></tra<>	NSISTOR>				R3253 R3254	1-216-065-00 1-216-043-91	METAL GLAZE METAL GLAZE	4.7K 560	5% 5%	1/10W 1/10W	
Q3202 8-729-422-27 Q3203 8-729-216-22 Q3204 8-729-216-22	TRANSISTOR 2SA1162- TRANSISTOR 2SD601A- TRANSISTOR 2SA1162- TRANSISTOR 2SA1162-	Q Ğ		             	R3255 R3256	1-216-041-00 1-216-043-91 1-216-298-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2	5% 5% 5%	1/10W 1/10W 1/10W	
Q3206 8-729-422-27 Q3207 8-729-216-22 Q3208 8-729-422-27 Q3209 8-729-216-22	TRANSISTOR 2SD601A- TRANSISTOR 2SA1162- TRANSISTOR 2SD601A- TRANSISTOR 2SA1162-	G Q G			R3264 R3265	1-216-073-00 1-216-025-00 1-216-025-00 1-216-049-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 100 100 1K 2.2K		1/10W 1/10W 1/10W 1/10W 1/10W	
<b>Q</b> 3210 8-729-216-22	TRANSISTOR 2SA1162-	Ğ			R3267	1-216-055-00	METAL GLAZE		5% 5%	1/10W	
	SISTOR>	FW	* /* 0.11		R3270	1-216-053-00 1-216-057-00 1-216-657-11	METAL CHIP	2.2K 1.8K	5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W	
R3201 1-216-097-00 R3202 1-216-073-00 R3203 1-216-025-00	METAL GLAZE 100K METAL GLAZE 10K METAL GLAZE 100	5% 5% 5%	1/10W 1/10W 1/10W			1-216-655-11 1-216-073-00	METAL CHIP			1/10W	
R3204 1-216-025-00 R3205 1-216-121-00	METAL GLAZE 100K METAL GLAZE 10K METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 1M	5% 5%	1/10W 1/10W		R3274 R3275	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R3207 1-216-295-00 R3208 1-216-097-00	CONDUCTOR, CHIP METAL GLAZE 100K	5%	1/10W		R3277	1-216-049-00 1-216-298-00	METAL GLAZE	1K 2.2	5%	1/10W	
R3209 1-216-079-00 R3210 1-216-089-00 R3211 1-216-073-00	METAL GLAZE 100K METAL GLAZE 18K METAL GLAZE 47K METAL GLAZE 10K	5% 5% 5%	1/10W 1/10W 1/10W	,	V200	4	STAL>	(CDA)			
R3212 1-216-073-00 R3213 1-216-075-00	METAL GLAZE 12K	5%	1/10W 1/10W		X3202	1-567-878-11 1-567-878-11	VIBRATOR, CRY	/STAL		alo alo alo alo alo alo	
R3214 1-216-121-00 R3215 1-216-057-00 R3216 1-216-057-00		5%	1/10W 1/10W 1/10W			*A-1297-476-A		PLETE	****	*****	*****
R3217 1-216-057-00 R3218 1-216-049-00 R3219 1-216-049-00 R3220 1-216-049-00	METAL GLAZE 2.2K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W			4-365-216-00 4-382-854-11	SPACER, MICA SCREW (M3X10)	), P, SU	W (+)		
R3221 1-216-655-11 R3222 1-216-655-11	METAL CHIP 1.5K METAL CHIP 1.5K	0.50%				<caf< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></caf<>	ACITOR>				
R3223 1-216-025-00 R3224 1-216-049-00 R3225 1-216-025-00 R3226 1-216-085-00	METAL GLAZE 100 METAL GLAZE 1K METAL GLAZE 100 METAL GLAZE 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C201 C202 C203 C204 C205	1-104-665-11 1-102-125-00 1-130-489-00 1-124-902-00 1-104-665-11	ELECT CERAMIC FILM ELECT ELECT	100MF 0.0047 0.033M 0.47MF 100MF	MF F	20% 10% 5% 20% 20%	25V 50V 50V 50V 25V
R3227 1-216-647-11 R3228 1-216-045-00 R3229 1-216-073-00 R3230 1-216-073-00 R3231 1-216-001-00	METAL GLAZE 680 METAL GLAZE 10K METAL GLAZE 10K	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C206 C207 C208 C209 C210	1-124-902-00 1-124-903-11 1-124-768-11 1-124-903-11 1-102-125-00	BLECT BLECT BLECT BLECT CERAMIC	0.47MF 1MF 4.7MF 1MF 0.0047		20% 20% 20% 20% 10%	50V 50V 50V 50V 50V
R3232 1-216-083-00 R3233 1-216-049-00 R3234 1-216-651-11 R3235 1-216-043-91 R3236 1-216-065-00	METAL GLAZE 1K METAL CHIP 1K METAL GLAZE 560	5% 5% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C211 C212 C220 C221	1-130-489-00 1-124-768-11 1-126-964-11 1-126-964-11	FILM ELECT ELECT ELECT	0.033M 4.7MF 10MF 10MF	F	5% 20% 20% 20% 20%	50V 50V 50V 50V 50V
R3237 1-216-043-91	METAL GLAZE 560	5%	1/10W		C222	1-126-964-11	ELECT	10MF		4U.As	JU1



REF.NO. PART NO. DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK		
C2 C2 C2	232	1-126-964-11 1-104-665-11 1-104-664-11 1-124-903-11 1-104-664-11	ELECT ELECT	10MF 100MF 47MF 1MF 47MF	20% 20% 20% 20% 20% 20%	50V 25V 25V 50V 25V	D201 D202 D220 D221 D231	8-719-110-17 8-719-911-19	DIODE RD10ESB2 DIODE RD10ESB2 DIODE ISS119-25 DIODE ISS119-25 DIODE ISS119-25		
C2 C2 C2	239	1-124-902-00 1-104-665-11 1-126-943-11 1-126-943-11 1-137-399-11	ELECT ELECT ELECT	0.47MF 100MF 2200MF 2200MF 0.1MF	20% 20% 20% 20% 5%	50V 25V 25V 25V 50V	D232 D262 D263 D264 D301	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25 DIODE 1SS119-25 DIODE 1SS119-25 DIODE RD22ESB1	· ·	
C2 C2	242 243 244 245 262		FILM FILM BLECT FILM BLECT	0.1MF 0.1MF 100MF 0.1MF 47MF	5% 5% 20% 5% 20%	50V 50V 25V 50V 25V	D302 D303 D304 D501 D502	8-719-110-56 8-719-110-56 8-719-110-56	DIODE RD22ESB1 DIODE RD22ESB1 DIODE RD22ESB1 DIODE ISS119-25 DIODE RD3.9ESB2		
C2 C2 C2	263 264 265 266 267	1-104-665-11 1-104-665-11 1-104-665-11 1-104-665-11 1-104-664-11	ELECT ELECT ELECT	100MF 100MF 100MF 100MF 47MF	20% 20% 20% 20% 20%	25V 25V 25V 25V 25V	D504 D505 D506 D507 D509	8-719-911-19 8-719-911-19 8-719-300-80	DIODE 1SS119-25 DIODE 1SS119-25	-6394	
C 5 C 5 C 5	501 502 503 504 505	1-124-902-00 1-104-664-11 1-137-370-11 1-164-070-11 1-137-372-11	ELECT FILM CERANIC	0.47MF 47MF 0.01MF 100PF 0.022MF	20% 20% 5% 5% 5%	50V 25V 50V 50V 50V	D510 D511	8-719-900-95 8-719-911-19			
C: C: C:	506 507 508 509 510	1-107-368-11	BLECT FILM BLECT FILM CBRAMIC	33MF 0.047MF 33MF 0.047MF 330PF	10% 20% 10% 10%	160V 200V 160V 200V 500V	1 C202	<1C> 8-759-135-80 8-759-090-21 8-759-190-89	IC UPC358C IC TDA8424 IC TDA7265		
C! C!	511 512 513 514 515	1-137-414-11 1-162-115-00 1-136-598-11 1-136-613-11 1-162-114-00	CERAMIC FILM	0.0047MF 330PF 3MF 0.0068MF 0.0047MF	10% 10% 5% 3%	100V 2KV 200V 2KV 2KV	1C263	8-759-054-12 8-759-504-46 8-759-701-79	IC PQO5RF1 IC NJM7812FA		
C!	516 517 518 519 1001	1-107-719-11 1-126-971-11 1-126-971-11 1-124-903-11 1-124-927-11	ELECT	220MF 470MF 470MF 1MF 4.7MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V	L1002	COI 1-411-189-11 1-406-832-11 1-408-408-00 1-408-408-00 1-408-408-00	COIL, CHOKE 15MM COIL, HORIZONTAL INDUCTOR 8 INDUCTOR 8	LINEARITY(HLC) .2UH .2UH	
C	1005 1006 1007	1-126-935-11 1-104-665-11 1-101-004-00 1-126-935-11 1-101-004-00	ELECT CERAMIC	470MF 100MF 0.01MF 470MF 0.01MF	20% 20% 20%	16V 25V 50V 16V 50V	Q220		NSISTOR>	.2UH	
c	1010	1-126-964-11 1-102-121-00	ELECT	10MF 0.0022MF	20% 10%	50V 50V	0221 0222 0223 0230	8-729-119-76 8-729-927-14 8-729-119-76 8-729-119-78	TRANSISTOR 2SA11 TRANSISTOR DTC32 TRANSISTOR 2SA11 TRANSISTOR 2SC27	75-HFE 3TS 75-HFE	
C	N221		INECTOR>	NARD TO ROAT	IN 2ÔP		Q231 Q232 Q234	8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC27 TRANSISTOR 2SC27 TRANSISTOR 2SC27	85-HFE	
CN221 1-573-298-21 CONNECTOR, BOARD TO BOARD 20P CN222 1-573-298-21 CONNECTOR, BOARD TO BOARD 20P CN223 *1-564-507-11 PLUG, CONNECTOR 4P CN224 *1-564-507-11 PLUG, CONNECTOR 4P					1D 20P		Q235 Q236	8-729-119-76 8-729-119-78	TRANSISTOR 2SA11 TRANSISTOR 2SC27	75-HFE 85-HFE	
CN225 *1-564-513-11 PLUG, CONNECTOR 10P  CN511 *1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P CN527 *1-573-963-11 PIN, CONNECTOR (PC BOARD) 3P CN528 1-695-915-11 TAB (CONTACT) CN541 *1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P			) 3P		Q501 Q502 Q503 Q504 Q505	8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-80	TRANSISTOR 2SA11 TRANSISTOR 2SA11 TRANSISTOR 2SC27 TRANSISTOR 2SC27 TRANSISTOR 2SC26	75-HFE 185-HFE 185-HFE			
CN541 *1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P CN571 *1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P CN1026*1-564-506-11 PLUG, CONNECTOR 3P				Q506 Q507 Q508 Q509 Q509	8-729-201-31 8-729-304-92 8-729-201-31 8-729-010-98 8-729-021-48	TRANSISTOR 2SA10 TRANSISTOR 2SB64 TRANSISTOR 2SA10 TRANSISTOR 2SA14 TRANSISTOR 2SD23	9A-C 13-0 192M-0PY				
	<diode></diode>						1	3, vai 10			

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque  $\Lambda$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			<u>L.</u>	REMARK	,
Q511 Q1003	8-729-119-76 8-729-119-76 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1175-1	HFE			R513 R514	1-215-900-11 1-249-421-11	METAL OXIDE CARBON	22K 2.2K	5% 2 5% 1	2W [/4W	F F	
#1004		ISTOR>	502103 1	iir b			R515 R516 R517 R518	1-215-925-11 1-249-430-11 1-249-429-11 1-249-427-11	CARBON CARBON	22K 12K 10K 6.8K	5% 1 5% 1 5% 1	3W L/4W L/4W L/4W	F F	
R201 R203 R204 R205	1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-431-11	CARBON CARBON	10K 10K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R519 R520 R521	1-249-417-11 1-249-423-11 1-249-437-11	CARBON CARBON CARBON	1K	5% 1	L/4W L/4W L/4W	F	
R207 R208 R209	1-249-431-11 1-249-429-11 1-249-431-11	CARBON CARBON CARBON	15K 10K 15K	5% 5%	1/4W 1/4W 1/4W		R522 R523 R524	1-249-417-11 1-249-426-11 1-215-925-11	CARBON CARBON METAL OXIDE	3.3K 47K 1K 5.6K 22K	5% 1 5% 3	1/4W 1/4W 3W	F F	
R210 R211 R212	1-249-451-11 1-247-815-91 1-249-429-11 1-249-441-11	CARBON CARBON CARBON	220 10K 100K	5% 5% 5%	1/4W 1/4W 1/4W		R525 R526 R528 R529	1-216-373-11 1-216-478-11 1-216-477-11 1-216-477-11	METAL OXIDE	2.2 390 270 270	5% 2 5% 3 5% 3 5% 3	2¥ 3₩ 3₩ 3₩	ե ե ե	
R213 R214 R215	1-249-441-11 1-247-815-91 1-249-441-11	CARBON CARBON CARBON	100K 220 100K 100K 100	5% 5%	1/4W 1/4W 1/4W		R530	1-216-477-11	METAL OXIDE			ś₩ 3W	F F	
R216 R217	1-249-441-11 1-247-807-31	CARBON CARBON			1/4W 1/4W		R532 R533 R534 R1001	1-215-442-00	METAL METAL METAL	270 7.5K 8.2K 4.7K 22K	1% 1% 1%	1/4W 1/4W 1/4W 2W	F	
R218 R219 R220	1-247-807-31 1-249-417-11 1-249-429-11 1-249-437-11	CARBON CARBON CARBON CARBON	100 1K 10K 47K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		!	1-249-434-11 1-249-425-11	,			2W 1/4W 1/4W	r	
R221 R222 R223	1-249-417-11	CARBON	1K 10K		1/4W 1/4W		R1008	1-249-423-11 1-249-411-11 1-249-436-11	CARBON CARBON	100 330 39K	5% 5%	1/4W 1/4W 1/4W		
R224 R230 R231 R233	1-249-429-11 1-249-430-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON CARBON	10K 12K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R1016 R1017	1-247-807-31 1-249-417-11 1-215-432-00 1-249-441-11	CARBON CARBON	100 1K	5% 5% 1%	1/4W 1/4W 1/4W 1/4W		
R234 R235 R236 R237 R238	1-249-441-11 1-249-414-11 1-249-432-11 1-249-414-11 1-249-431-11	CARBON CARBON CARBON CARBON CARBON	100K 560 18K 560 15K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W				ANSFORMER>			17 10		
	1-249-451-11	CARDUN	137	26	1/4W			R   47 UT		1000	N. O. C. Contraction			
R239	1-249-430-11		12K	5% 5%	1/4W			< <b>T</b> (I)						
R241 R242 R243	1-249-436-11 1-249-432-11 1-247-863-91	CARBON CARBON CARBON	12K 39K 18K	5% 5% 5% 5%	1/4W 1/4W 1/4W		7800	<tui< td=""><td>VER&gt;</td><td>1402</td><td></td><td></td><td></td><td></td></tui<>	VER>	1402				
R241 R242 R243 R244 R246	1-249-436-11 1-249-432-11 1-247-863-91 1-247-863-91 1-247-863-91	CARBON CARBON CARBON CARBON CARBON	12K 39K 18K 22K 22K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W			AA 598-25-0	NER> ) ************************************	******			******	**
R241 R242 R243 R244 R246 R247 R249 R250	1-249-436-11 1-249-432-11 1-247-863-91 1-247-863-91 1-247-863-91 1-249-430-11 1-247-807-31 1-249-417-11	CARBON	12K 39K 18K 22K 22K 22K 12K 100 1K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W			**************************************	MER>  ***********************************	******** PLETE (! *****	KP-41T1	5)		**
R241 R242 R243 R244 R246 R247 R249 R250 R251	1-249-436-11 1-249-432-11 1-247-863-91 1-247-863-91 1-249-430-11 1-249-417-11 1-249-437-11 1-249-437-11 1-249-429-11	CARBON	12K 39K 18K 22K 22K 22K 12K 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W			*A-1306-498-A	NER>  ***********************************	********* PLETE (I ***** PLETE (I	KP-41T1 KP-46S1	5)		**
R241 R242 R243 R244 R246 R247 R249 R250 R251	1-249-436-11 1-249-432-11 1-247-863-91 1-247-863-91 1-247-863-91 1-249-430-11 1-247-807-31 1-249-417-11 1-249-437-11	CARBON	12K 39K 18K 22K 22K 22K 100 1K 47K 1K 10K 10K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	F		*A-1306-493-A *A-1306-498-A 4-382-854-11	MER>  ***********************************	********* PLETE (I ***** PLETE (I	KP-41T1 KP-46S1	5)		**
R241 R242 R243 R244 R246 R247 R250 R251 R252 R255 R255 R255 R255	1-249-436-11 1-249-432-11 1-247-863-91 1-247-863-91 1-249-430-11 1-249-417-11 1-249-437-11 1-249-437-11 1-249-429-11 1-249-429-11 1-249-429-11	CARBON	12K 39K 18K 22K 22K 22K 100 1K 47K 10K 10K 10K 10K	5% 55% 55% 55% 55% 55% 55% 55% 55% 55%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	F F		*A-1306-493-A *A-1306-498-A 4-382-854-11	MER>  MERE BYE BYE BYE BYE BYE BYE BYE BYE BYE BY	********* PLETE (I ***** PLETE (I ***** ), P, SI  470MF 1000MF 220PF 220PF	KP-41T1 KP-46S1 W (+) 2 2 1 1 1	5)		**
R241 R242 R243 R244 R246 R247 R250 R251 R252 R255 R257 R258 R259 R260 R501 R502 R503	1-249-436-11 1-249-432-11 1-247-863-91 1-247-863-91 1-249-430-11 1-249-437-11 1-249-417-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-421-11 1-249-421-11 1-249-421-11 1-249-429-11	CARBON METAL OXIDE CARBON CARBON CARBON CARBON CARBON CARBON CARBON CARBON	12K 39K 18K 22K 22K 22K 100 1K 47K 10K 10K 10K 10K 10K 10K 10K 10K 10K 10	555555 555555 55555 1155	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W		C001 C002 C004 C005	*A-1306-493-A  *A-1306-498-A  4-382-854-11 <ca 1-126-935-11="" 1-163-001-11="" 1-163-001-11<="" td=""><td>MERS  ***********************************</td><td>********** PLETE (I ****** PLETE (I ****** ), P, SI  470MF 1000MF 220PF 220PF 220PF 220PF 220PF 220PF 220PF</td><td>KP-41T1 KP-46S1 W (+)  2 2 1 1 1 1 1</td><td>5) 5/53\$ 20% 20%</td><td>16V 6.3V 50V 50V</td><td>**</td></ca>	MERS  ***********************************	********** PLETE (I ****** PLETE (I ****** ), P, SI  470MF 1000MF 220PF 220PF 220PF 220PF 220PF 220PF 220PF	KP-41T1 KP-46S1 W (+)  2 2 1 1 1 1 1	5) 5/53\$ 20% 20%	16V 6.3V 50V 50V	**
R241 R242 R243 R244 R246 R247 R250 R251 R252 R257 R258 R259 R260 R501 R502 R503 R504 R505 R506 R507 R508	1-249-436-11 1-249-432-11 1-247-863-91 1-247-863-91 1-247-863-91 1-249-430-11 1-249-437-11 1-249-437-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-421-11 1-249-429-11 1-249-421-11 1-249-421-11 1-249-421-11 1-249-421-11 1-249-421-11 1-249-421-11	CARBON METAL OXIDE CARBON	12K 39K 18K 22K 22K 22K 100 1K 47K 10K 10K 10K 10K 10K 10K 10K 10K 10K 10	555555 55555 55555 115555 5	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W		C001 C002 C004 C005 C006 C007 C009 C010 C011	*A-1306-493-A  *A-1306-498-A  *A-1306-498-A  4-382-854-11 <ca 1-126-935-11="" 1-163-001-11="" 1-163-001-11<="" td=""><td>MER&gt;  ***********************************</td><td>**************************************</td><td>KP-41T1 KP-46S1 W (+)  2 2 1 1 1 1 1 1 1 1</td><td>5) 5/53S 00% 00% 00% 00% 00% 00% 00%</td><td>16V 6.3V 50V 50V 50V 50V 50V 50V</td><td>***</td></ca>	MER>  ***********************************	**************************************	KP-41T1 KP-46S1 W (+)  2 2 1 1 1 1 1 1 1 1	5) 5/53S 00% 00% 00% 00% 00% 00% 00%	16V 6.3V 50V 50V 50V 50V 50V 50V	***



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C016	1-163-001-11	CERAMIC CHIP		10%	50V	C323	1-163-031-11	CERAMIC CHIP			50V
C017 C018 C019 C020	1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	10% 10% 10% 10%	50V 50V 50V 50V	C324 C327 C328 C329	1-128-551-11 1-163-139-00 1-163-117-00 1-163-001-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22MF 820PF 100PF 220PF	20% 5% 5% 10%	50V 50V 50V 50V
C021 C022 C023 C024 C025	1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V	C338 C339 C340 C341	1-124-927-11 1-124-464-11 1-163-133-00 1-124-902-00	ELECT CERAMIC CHIP ELECT	0.47MF	20% 20% 5% 20%	50V 50V 50V 50V 50V
C026 C028 C029 C030 C031	1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP		10% 10% 10% 10% 10%	50V 50V 50V 50V 50V	C342 C343 C344 C345 C346	1-124-902-00 1-124-902-00 1-163-031-11 1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF	20% 20%	50V 50V 50V 50V
C032 C033 C034 C035 C037	1-163-001-11 1-163-809-11 1-163-001-11 1-124-903-11 1-163-009-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP BLECT CERAMIC CHIP	0.047MF 220PF 1MF	10% 10% 10% 20% 10%	50V 25V 50V 50V 50V	C347 C348 C349 C350	1-124-902-00 1-163-097-00 1-163-109-00 1-126-964-11	ELECT CERAMIC CHIP CERAMIC CHIP ELECT	47PF 10MF	20% 5% 5% 20%	50V 50V 50V 50V (KP-41T15)
C038 C040	1-126-940-11 1-124-903-11	ELECT ELECT	330NF	20%	16V 50V	C352 C353	1-163-031-11 1-104-665-11	CERAMIC CHIP ELECT	0.01MF 100MF	20%	50V 25V
C041 C042 C046	1-163-001-11 1-163-001-11 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF	20% 10% 10% 5%	50V 50V 50V	C354 C355	1-163-101-00 1-128-551-11	CERANIC CHIP	22PF 22MF	5% 20%	50V (KP-41T15) 50V
C047	1-124-903-11	ELECT	1MF	20% 5%	50V 50V	C357		ELECT		20%	(KP-41T15) 25V
C048 C049 C050 C051	1-163-245-11 1-163-001-11 1-163-031-11 1-163-017-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 0.01MF	10%	50V 50V 50V	C358		CERAMIC CHIP		5%	(KP-41T15) 50V (KP-41T15) 50V
C054 C055 C056	1-163-001-11 1-163-037-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.022MF	10% 10% 10%	50V 25V 50V	C360	1-126-964-11		10MF		(KP-41T15) 50V
C057 C058	1-163-159-00 1-104-896-11	CERAMIC CHIP CERAMIC CHIP	12PF	2% 2%	50V 50V	C361	1-126-964-11		10MF		(KP-41T15) 50V
C060 C062	1-124-903-11 1-163-038-00	ELECT CERAMIC CHIP	IMF 0.1MF	20%	50V 25V	C362	1-163-101-00	CERAMIC CHIP	22PF	5%	(KP-41T15) 50V
C063 C064 C065	1-126-964-11 1-126-964-11 1-163-038-00	ELECT ELECT CERANIC CHIP	10MF 10MF	20% 20%	50V 50V 25V	C363	1-163-009-11	CERAMIC CHIP	0.001MF	10%	(KP-41T15) 50V (KP-41T15)
C066	1-163-135-00 1-137-399-11	CERAMIC CHIP		5% 5%	50V -	C364	1-126-964-11	ELECT	10MF	20%	50V (KP-41T15)
C067 C068 C069 C070	1-137-367-11 1-137-367-11 1-137-375-11 1-104-664-11	FILM	กถกรรพท	5% 5% 20%	50V 50V 50V 25V	C365 C366 C368 C369	1-163-101-00 1-163-117-00 1-163-093-00 1-163-809-11	CERAMIC CHIP CERAMIC CHIP	100PF 10PF	5% 5% 10%	50V 50V 50V 25V
C071 C074 C075 C302 C303	1-124-464-11 1-126-940-11 1-163-031-11 1-124-902-00 1-124-902-00	ELECT ELECT CERAMIC CHIP ELECT ELECT	0.22MF 330MF 0.01MF 0.47MF 0.47MF	20% 20% 20% 20%	50V 16V 50V 50V 50V	C370 C371	1-104-665-11 1-104-665-11		100MF 100MF	20% 20%	25V 25V
C304 C309	1-124-927-11	ELECT	4.7MF	20%	50V			NDUCTOR CHIP>			
C309 C310 C311 C312	1-163-019-00 1-163-017-00 1-124-925-11 1-163-017-00	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.0047MF 2.2MF	10% 10% 20% 10%	50V 50V 50V 50V	CJ002	1-216-295-00 1-216-295-00 1-216-295-00	CONDUCTOR, C	HIP		
€313 €314	1-104-664-11 1-163-031-11		47MF 0.01MF	20%	25V 50V		<c0< td=""><td>NNECTOR&gt;</td><td></td><td></td><td></td></c0<>	NNECTOR>			
C315 C316 C317	1-126-934-11 1-131-374-00 1-163-031-11	ELECT Tantalum	220MF 33MF	20% 10%	16V 16V 50V	CN053	*1-564-512-11 *1-564-507-11 1-573-979-21 *1-564-512-11	PLUG, CONNECTOR, E	CTOR 4P BOARD TO BOA	RD 11	P
C318 C319	1-124-925-11 1-124-903-11 1-124-903-11	ELECT	2.2MF 1MF 1MF	20% 20% 20%	50V 50V 50V	CN314	*1-564-509-11 1-573-301-21	PLUG, CONNEC	CTOR 6P	(RD 20)	(KP-41T15) P
C320 C321		CERAMIC CHIE		20% 10%	50V 50V		1-573-301-21				



							<u> </u>
	DESCRIPTION						
CN351 *1-564-509- CN355 *1-565-930- CN356 *1-566-367- CN357 *1-564-516- CN358 *1-564-508-	PLUG, CONNECTOR 6P CONNECTOR (RECEPTACE CONNECTOR, HINGE (RE PLUG, CONNECTOR 13P PLUG, CONNECTOR 5P	.E) 30P CCEPTACLE)	L004 L005 L006 L302	1-410-476-11 1-410-470-11 1-410-470-11 1-408-413-00	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	33UH 10UH 10UH 22UH	(KP-41T15)
CH 204 200 .	MARCH COMMERCIAL SI		L303 L304	1-408-416-00 1-410-468-11	INDUCTOR INDUCTOR	39UH 6.8UH	(KP-41T15)
D001 8-719-404-	6 DIODE MA110			<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td></tra<>	NSISTOR>		
D002 8-719-404-4 D003 8-719-404-4 D004 8-719-109-8 D005 8-719-109-8	DIODE NATIO HE DIODE MATO		Q001 Q002 Q003 Q004	8-729-216-22 8-729-120-28 8-729-120-28 8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162-G 2SC1623-L5L6 2SC1623-L5L6 2SA1162-G	
D006 8-719-109-1	38 DIODE RD5.6ESB1		Q005	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
D008 8-719-002-7 D009 8-719-404-7 D010 8-719-404-7	SI DIODE MAILO  AG DIODE MAILO  AG DIODE MAILO		Q007 Q008 Q009	8-729-120-28 8-729-216-22 8-729-216-22 8-729-120-28 8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SA1162-G 2SA1162-G 2SC1623-L5L6 2SA1162-G	
D012 8-719-404- D013 8-719-404-	46 DIODE MAIIO 46 DIODE MAIIO		Q011	8-729-216-22	TRANSISTOR	2SA1162-G	
D014 8-719-404- D015 8-719-404- D016 8-719-404-	46 DIODE MAIIO 46 DIODE MAIIO 46 DIODE MAIIO		Q012 Q017 Q018 Q019	8-729-120-28 8-729-120-28 8-729-216-22 8-729-120-28	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6 2SA1162-G 2SC1623-L5L6	
D017 8-719-404- D018 8-719-404-	46 DIODE MAIIO 46 DIODE MAIIO 46 DIODE MAIIO		Q301	8-729-216-22 8-729-216-22	TRANSISTOR	2SA1162-G	
D020 8-719-105-	DIODE RD5.6M-B2		0303 0304	8-729-216-22 8-729-216-22	TRANSISTOR TRANSISTOR	2SA1162-G 2SA1162-G	
D305 8-719-121- D307 8-719-121- D308 8-719-110-	24 DIODE RD9.IESL 24 DIODE RD9.IESL 22 DIODE RD11RSB2		Q305 Q307	8-729-120-28 8-729-120-28	TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6	
D309 8-719-109- D310 8-719-914-	84 DIODE RD5.1ESB1 44 DIODE DAP2OK		0308 0309	8-729-216-22 8-729-216-22	TRANSISTOR TRANSISTOR	2SA1162-G 2SA1162-G	/VD 4151E\
D311 8-719-914- D312 8-719-404-	43 DIODE DAN202K 46 DIODE WA110		Q311	8-729-120-28	TRANSISTOR	2SC1623-L5L6	(KP-41T15)
D313 8-719-404- D314 8-719-404- D315 8-719-109-	46 DIODE MA110 46 DIODE MA110 88 DIODE RD5.6ESB1		Q312 Q313 Q314	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6 2SC1623-L5L6	(KP-41T15) (KP-41T15)
D316 8-719-404-	46 DIODE MAILO		Q315 Q316	8-729-120-28 8-729-120-28	TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6	(KP-41T15) (KP-41T15)
D320 8-719-404- D321 8-719-404- D322 8-719-404-	22 DIODE RDIIESB2 46 DIODE MAIIO 46 DIODE MAIIO 46 DIODE MAIIO	(KP-41T15) (KP-41T15) (KP-41T15)	Q317 Q318 Q319	8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162-G 2SC1623-L5L6 2SC1623-L5L6	(KP-41T15) (KP-41T15) (KP-41T15)
D323 8-719-404-	46 DIODE MA110	(KP-41T15)	Q320 Q321	8-729-120-28 8-729-120-28			(KP-41115) (KP-41115)
D324 8-719-404- D325 8-719-404- D326 8-719-110-	46 DIODE MA110 08 DIODE RD8.2ESB2	(KP-41T15) (KP-41T15)	Q322	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
D327 8-719-404- D328 8-719-911-	46 DIODE MA110 19 DIODE 188119-25			<res< td=""><td>SISTOR&gt;</td><td></td><td></td></res<>	SISTOR>		
			R001 R002	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1K 5%	1/10W 1/10W
ICO01 8-759-112-	IC> O6 IC UPC78NO5H		R003 R004 R005	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	3 220 5%	1/10W 1/10W 1/10W
I ČÕÕŽ 8-752-863- I COO3 8-759-284- I COO4 8-759-328-	20		R006 R007	1-216-033-00	METAL GLAZE	220 5%	1/10W 1/10W
IC005 8-759-280-	75 IC ST24C01CB1		R008	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	\$ 220 5% \$ 220 5%	1/10W 1/10W
IC301 8-752-063-	44 IC MN1280-S 50 IC CXA1477AS 75 IC NJM7805FA		R010	1-216-073-00 1-216-033-00	METAL GLAZE METAL GLAZE	10K 5%	1/10W 1/10W
			R012 R013	1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE	220 5% 10K 5%	1/10W 1/10W
	COIL> 11 INDUCTOR 10UH	I	R014 R015	1-216-073-00 1-216-033-00		E 10K 5% E 220 5%	1/10W 1/10W



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R018 R019 R020 R021 R022	1-216-049-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 220 220 220 100 K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R086 R087 R088 R089 R090	1-216-097-00 1-216-073-00 1-216-089-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE	100K 10K 47K 4.7K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R023 R024 R025 R026 R027	1-216-121-00 1-216-065-00 1-216-073-00 1-216-073-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 M 4.7K 10K 10K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R101 R102 R103 R104 R106	1-216-065-00 1-216-089-00 1-216-045-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	4.7K 47K 680 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R028 R029 R031 R032 R033	1-216-065-00 1-216-065-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 4.7K 4.7K 4.7K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R107 R108 R109 R110 R111	1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R034 R035 R036 R037 R038	1-216-073-00 1-216-033-00 1-216-025-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 220 100 220 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R112 R113 R114 R115 R116	1-216-089-00 1-216-089-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 4.7K 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R039 R040 R041 R042 R043	1-216-025-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 220 220 220 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R117 R118 R119 R120 R300	1-216-047-00 1-216-047-00 1-216-047-00 1-216-033-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	820 820 820 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
RO44 RO45 RO46 RO47 RO48	1-216-089-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 220 220 220 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R301 R302 R303 R304 R305	1-216-059-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 1K 1K 1K 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R049 R050 R051 R052 R054	1-216-033-00 1-216-049-00 1-216-049-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 1K 1K 4.7K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R306 R307 R308 R309 R310	1-216-025-00 1-216-057-00 1-216-073-00 1-216-025-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 2.2K 10K 100 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R055 R056 R057 R058 R059	1-216-049-00 1-216-049-00 1-216-065-00 1-216-073-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CONDUCTOR, CH			1/10W 1/10W 1/10W 1/10W		R311 R312 R313 R314 R315	1-216-025-00 1-216-033-00 1-216-081-00 1-216-033-00 1-216-067-00	METAL GLAZE	100 220 22K 220 5.6K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R060 R062 R063 R064 R065	1-216-065-00 1-216-085-00 1-216-041-00 1-216-065-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 33K 470 4.7K 100K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R317	1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 470 4.7K 470	5%	1/10W 1/10W 1/8W 1/10W 1/8W	
R066 R067 R068 R069 R071	1-216-049-00 1-216-049-00 1-216-049-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 O K 1 O K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R323 R324 R325 R326 R327	1-216-295-00 1-216-025-00 1-216-043-91 1-216-077-00 1-216-033-00	CONDUCTOR, CH METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 560 15K 220	55% 5555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W	
R072 R073 R074 R075 R076	1-216-041-00 1-216-049-00 1-216-049-00 1-216-069-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1K 1K 6.8K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R328 R329 R330 R331 R332	1-216-025-00 1-216-085-00 1-216-039-00 1-216-059-00 1-216-049-00	METAL GLAZE METAL GLAZE	100 33K 390 2.7K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R077 R078 R079 R080 R081	1-216-097-00 1-216-097-00 1-216-081-00 1-216-023-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 22K 82 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R333 R335 R336 R337 R338	1-208-810-11 1-216-033-00 1-216-033-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 220 220 1K 1K	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R082 R083 R084 R085	1-216-093-00 1-216-065-00 1-216-073-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 4.7K 10K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R339 R340 R341	1-216-655-11 1-216-033-00 1-216-033-00		1.5K 220 220	0.50% 5% 5%	1/10W 1/10W 1/10W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK	
R342 R343	1-216-033-00 1-216-077-00	METAL GLAZE METAL GLAZE	220 15K	5% 5%	1/10W 1/10W							P-41T15)	
R344 R345	1-216-073-00 1-216-025-00	METAL GLAZE METAL GLAZE	10K 100	5% 5% 5% 5%	1/10W 1/10W	R383	1-216-043-91		560	5%		P-41T15)	
R346	1-216-037-00	METAL GLAZE	330		1/10W	R384	1-216-053-00	METAL GLAZE	1.5K	5%		P-41T15)	
R347 R348	1-216-041-00 1-216-049-00	METAL GLAZE METAL GLAZE	470 1K	5% 5%	1/10W 1/10W (KP-41T15)	R385	1-216-085-00	METAL GLAZE	33K	5%	1/10W (K	(P-41T15)	
R349 R350	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220	5% 5%	1/10W 1/10W	R386	1-216-121-00	METAL GLAZE	1M	5% ===	1/10w (k	) (P-41T15)	
R351 R352	1-216-033-00 1-216-057-00	METAL GLAZE METAL GLAZE	220 2.2K	5% 5%	1/10W 1/10W	R387	1-216-049-00		1 K	5%	1/10W (K	P-41T15)	
R353	1-216-069-00	METAL GLAZE	6.8K	5%	(KP-41T15) 1/10W	R388	1-216-295-00	CONDUCTOR, CI				P-41T15)	
2054	4 044 050 00	WDB11 GLIGD		e- 64	(KP-41T15)	R389	1-216-033-00	METAL GLAZE	220	5%		(P-41T15)	
R354 R355	1-216-053-00 1-216-071-00	METAL GLAZE METAL GLAZE	1.5K 8.2K	5% 5%	1/10W 1/10W	R390	1-216-033-00	METAL GLAZE	220	5%	1/100		
R356 R357	1-216-031-00 1-216-031-00	METAL GLAZE	180 180	5% 5%	1/10W (KP-41T15) 1/10W	R391 R392	1-216-061-00 1-216-059-00	METAL GLAZE METAL GLAZE	3.3K 2.7K	5% 5%	1/10V 1/10V		
					(KP-41T15)		<cry< td=""><td>STAL&gt;</td><td></td><td></td><td></td><td></td><td></td></cry<>	STAL>					
R358 R359	1-216-049-00 1-216-037-00	METAL GLAZE METAL GLAZE	1K 330	5% 5%	1/10W 1/10W	X001		VIBRATOR, CR					
R360	1-216-035-00	METAL GLAZE	270	5%	(KP-41T15) 1/10W	X301 X302		OSCILATOR, OSCILLATOR,					
R361 R362	1-216-049-00 1-216-035-00	METAL GLAZE METAL GLAZE	1K 270	5% 5%	1/10W 1/10W		*********			****	*****	*******	ķ
R363	1-216-049-00	METAL GLAZE	1K	5%	(KP-41T15) 1/10W (KP-41T15)		*A-1316-212-A	**********					
R364	1-216-025-00	METAL GLAZE	100	5%	1/10W		<b>*4</b> -047-936-01 <b>4</b> -382-854-11	PLATE, SHIEL SCREW (M3X10	D, PIT ), P, S	W (+)			
R366	1-216-053-00	METAL GLAZE	1.5K	5%	(KP-41T15) 1/10W								
R367	1-216-057-00	METAL GLAZE	2.2K	5%	(KP-41T15) 1/10W	ren i		ACITOR>	A ATTEN		569	125V	
R368	1-216-025-00	METAL GLAZE	100	5%	(KP-41T15) 1/10W	C602 /	L 1-136-311-51 L 1-164-486-51 L 1-164-486-51	CERAMIC CERAMIC	0.47M 0.0022 0.0022	MF	207 207 207	400V 400V	
R369	1-216-061-00		3.3K		(KP-41T15) 1/10W	C604 /	K 1-125-692-11 L 1-125-692-11	ELECT (BLOCK)	820MF 820MF		20% 20%	200V 200V	
					(KP-41T15)	C608	1-164-645-11		1000PF	ì	10%	500V	MA
R370 R371		METAL GLAZE METAL GLAZE	220 1K	5% 5%	1/10W 1/10W	C609 C610	1-164-645-11 1-136-173-00	CERAMIC FILM	1000PF 0.47MF	}	10% 5%	500V 50V	
R372	1-216-051-00	METAL GLAZE	1.2K	5%	(KP-41T15) 1/10W (KP-41T15)	C611 C612	1-136-171-00 1-136-173-00		0.33MF 0.47MF		5% 5%	50 <b>V</b> 50 <b>V</b>	
R373	1-216-035-00	METAL GLAZE	270	5%	1/10W	C613 C614	1-136-171-00 1-164-735-11	FILM CAP, CERAMIC		î	5%	50 <b>V</b>	
R374	1-216-085-00	METAL GLAZE	33K	5%	(KP-41T15) 1/10W	C615	1-129-720-00 1-136-311-51	FILM	0.0331	7	5% 20%	630V 125V	
R375	1-216-075-00	METAL: GLAZE	12K	5%.	(KP-41T15) 1/10W		<b>A</b> 1-161-740-00 <b>A</b> 1-161- <b>74</b> 0-00		470PF 470PF		10%	400V 400V	
R376	1-216-093-00	METAL GLAZE	68K	5%	(KP-41115) 1/10W	C651 C652	1-128-548-11 1-128-548-11	ELECT ELECT	4700MF 4700MF	ì	20% 20%	25V 25V	**
R377	1-216-043-91	METAL GLAZE	560	5%	(KP-41T15) 1/10W	C653 C656	1-162-318-11 1-128-548-11	CERAMIC ELECT	0.001N 4700M		10% 20%	500V 25V	
R378	1-216-059-00	METAL GLAZE	2.7K	59	(KP-41T15)	C657 C658	1-126-926-11 1-126-768-11	ELECT ELECT	1000MF 2200MF		20% 20%	10V 16V	
R379		METAL GLAZE	27K	5%	(KP-41T15) 1/10W	C659 C660	1-126-944-11 1-164-644-11	ELECT CERAMIC	3300MF 330PF		20% 10%	25V 500V	
R380		METAL GLAZE	100K		(KP-41T15) 1/10W	C661	1-123-024-21	ELECT	33MF		10/0	160V	
			100%	JA	(KP-41T15)	C662 C663	1-107-636-11 1-126-948-11	ELECT ELECT	10MF 100MF		20% 20%	160V 35V	
R381		METAL GLAZE	8.2K	5%	1/10W (KP-41T15)	C664 C665	1-126-948-11 1-126-235-11 1-126-964-11	ELECT	100MF 10MF		20% 20%	6.3V 50V	
R382	1-216-085-00	METAL GLAZE	33K	5%	1/10W	C667	1-126-941-11	ELECT	470MF		20%	25V	



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The components identified by shading and mark A are critical for safety.
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R	⊥ EF.NO. 	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION REMARK
		1-104-664-11 1-162-318-11 1-104-664-11	CERAMIC	47MF 0.001MF 47MF	20% 10% 20%	25V 500V 25V	D679 D680	8-719-911-19 8-719-200-82	DIODE 1SS119-25 DIODE 11ES2
	C671 C672	1-104-664-11	ELECT	47NF 100NF	20% 20%	25V 25V 25V	D681 D682 D683	8-719-200-82	DIODE 11ES2 DIODE 11ES2 DIODE 11ES2
	C673 C674 C675	1-104-664-11 1-104-664-11 1-104-664-11	ELECT ELECT	47MF 47MF 47MF	20% 20% 20%	25V 25V 25V	D685 D686	8-719-911-19 8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25
	C676 C677	1-104-664-11 1-125-473-11	ELECT (BLOCK)		20% 20%	25V 160V	D687 D688 D689	8-719-911-19 8-719-911-19	DIODE RD2.0ESB2 DIODE 1SS119-25 DIODE 1SS119-25
	C679 C680	1-107-635-11 1-164-644-11 1-124-903-11 1-124-903-11	CERAMIC ELECT	4.7MF 330PF 1MF 1MF	20% 10% 20% 20%	160V 500V 50V 50V	D690 D691 D693	8-719-911-19	DIODE RD5.6ESB2 DIODE ISS119-25 DIODE ISS119-25
	C683	1-107-635-11	ELECT	4.7MF 220MF	20%	160V 16V	0093	<pus< td=""><td></td></pus<>	
			NECTOR>		20%	20.	POUL A	. i-5%-195-ti	PUSE 46 34/125V) CLIP, FUSE; F601
	CN606 CN615	1-695-915-11 1-695-915-11 *1-564-507-11	TAB (CONTACT TAB (CONTACT	)				<fer< td=""><td>RITE BEAD&gt;</td></fer<>	RITE BEAD>
	CN617	*1-564-507-11 *1-580-843-11 *1-564-507-11	PIN, CONNECT	OR (POWER)			FB651 FB652	1-410-396-41 1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH
	CN626	*1-564-513-11 *1-564-506-11 *1-564-507-11	PLUG. CONNEC	TOR 3P				<10>	
	CN681	*1-573-986-11	PIN, CONNECT	OR (PC BOAR	D) 5P			8-759-701-79	IC NJM7812FA
		ZD10							
9000	3/-(1)	<dio< td=""><td></td><td>· · · · · ·</td><td></td><td></td><td></td><td><c01< td=""><td>L&gt;</td></c01<></td></dio<>		· · · · · ·				<c01< td=""><td>L&gt;</td></c01<>	L>
	D604 D604 D605 D606 D607	8-719-052 29 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119 DIODE 188119 DIODE 188119	)-25 )-25 )-25			L651 L652 L653 L654 L655	1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11	CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL, CHOKE 22UH
	D604 D605 D606	8-719-052-29 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1.445R6 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	9-25 1-25 1-25 1-25 1-25 1-25 1-25 1-25			L652 L653 L654	1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11	CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL, CHOKE 22UH CIL, CHOKE 22UH
	D604 D605 D606 D607 D608 D609 D610 D611 D651	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-912-91 8-719-052-91	D100E 188119 D100E 188149 D100E D48884 D100E D10888	9-25 1-25 1-25 1-25 1-25 1-25 1-25 1-F 64F			L652 L653 L654 L655 L656 L657	1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11 1-403-588-11	CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL. CHOKE 22UH
	D604 D605 D606 D607 D608 D609 D610 D611 D651 D655 D656 D657 D658 D659	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-912-91 8-719-052-91 8-719-022-97 8-719-022-97 8-719-022-97 8-719-022-97	DIODE 1SS119 DIODE DIOSES DIODE DIOSES DIODE S2S4MF DIODE S2S4MF DIODE S2S4MF DIODE S2S4MF	9-25 9-25 9-25 9-25 9-25 9-25 9-25 1-F			L652 L653 L654 L655 L656 L657 L658 Q601 Q602 Q651 Q652	1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11 1-403-588-11 1-403-588-11 1-403-588-11 1-403-588-11 <\TRI 8-729-019-49 8-729-019-49 8-729-820-82 8-729-119-76	CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL, CHOKE 22UH CIL, CHOKE 22UH CIL, CHOKE 22UH ANSISTOR>  TRANSISTOR 2SC4834M TRANSISTOR 2SC4834M TRANSISTOR 2SA1208-S TRANSISTOR 2SA1175-HFE
	D604 D605 D606 D607 D608 D609 D611 D651 D655 D656 D657 D658 D659 D660 D660 D661 D662	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-912-91 8-719-052-91 8-719-052-92 8-719-022-97 8-719-022-97 8-719-022-97	DIODE ISS119 DIODE DIOSBS DIODE DIOSBS DIODE S254MF DIODE S254MF DIODE S254MF DIODE S254MF	0-25 0-25 0-25 0-25 0-25 0-25 0-25 0-25 1-F -TA -TA 0-TR2			L652 L653 L654 L655 L656 L657 L658 Q601 Q602 Q651 Q652 Q653 Q654	1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11 1-403-588-11 1-403-588-11 1-403-588-11 1-403-588-11 (*TRA 8-729-019-49 8-729-820-82 8-729-119-76 8-729-230-45 8-729-119-76	CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL, CHOKE 22UH CIL, CHOKE 22UH  INDUCTOR 3.3UH CIL, CHOKE 22UH  ANSISTOR>  TRANSISTOR 2SC4834M TRANSISTOR 2SC4834M TRANSISTOR 2SA1208-S TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE
	D604 D605 D606 D607 D608 D609 D611 D651 D655 D656 D657 D658 D659 D660 D661 D662 D663 D664 D665	8-719-052-29 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-052-91 8-719-052-92 8-719-022-97 8-719-022-97 8-719-022-97 8-719-022-97 8-719-052-86 8-719-052-86 8-719-052-31 8-719-052-31 8-719-052-31 8-719-052-31 8-719-052-31 8-719-052-31 8-719-510-26	DIODE 18819 DIODE 2884W DIODE 18819	9-25 9-25 9-25 9-25 9-25 9-25 1-F 1-TA 1-TA 1-TA 1-TA 1-TA 1-TA 1-TA 1-TA 1-TA 1-TA 1-TA 1-TB 1			L652 L653 L654 L655 L656 L657 L658 Q601 Q602 Q651 Q652 Q653	1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11 1-403-588-11 1-403-588-11 1-403-588-11 (TRA 8-729-019-49 8-729-019-49 8-729-820-82 8-729-119-76 8-729-230-45	CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL, CHOKE 22UH CIL, CHOKE 22UH  INDUCTOR 3.3UH CIL, CHOKE 22UH  ANSISTOR>  TRANSISTOR 2SC4834M TRANSISTOR 2SC4834M TRANSISTOR 2SA1208-S TRANSISTOR 2SA1208-S TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2458-YGR TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC1175-HFE TRANSISTOR 2SC1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC1785-HFE TRANSISTOR 2SC1785-HFE TRANSISTOR 2SC1785-HFE
	D604 D605 D606 D607 D608 D609 D610 D611 D651 D656 D657 D658 D659 D660 D661 D662 D663 D664	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-912-91 8-719-052-91 8-719-052-97 8-719-022-97 8-719-022-97 8-719-052-86 8-719-052-31 8-719-052-31 8-719-052-31 8-719-052-31 8-719-052-31 8-719-052-31	DIODE ISS119 DIODE S2S4MF DIODE D2L40- DIODE D1NL40 DIODE D1NL40 DIODE D1NL40	0-25 0-25 0-25 0-25 0-25 0-25 0-25 1-F 64F 0-TA 0-TR2 0-TR2 0-TR2 0-25			L652 L653 L654 L655 L656 L657 L658 Q601 Q602 Q651 Q652 Q653 Q656 Q656 Q657 Q658 Q659 Q660 Q661	1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11 1-403	CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL, CHOKE 22UH CIL, CHOKE 22UH  INDUCTOR 3.3UH CIL, CHOKE 22UH  INDUCTOR 3.3UH CIL, CHOKE 22UH  ANSISTOR>  TRANSISTOR 2SC4834M TRANSISTOR 2SC4834M TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2458-YGR TRANSISTOR 2SC2458-YGR TRANSISTOR 2SC2458-YGR TRANSISTOR 2SC2458-YGR TRANSISTOR 2SC2458-YGR TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE
	D604 D605 D606 D607 D608 D609 D610 D611 D651 D655 D656 D657 D658 D660 D661 D662 D663 D664 D6663 D6664 D6667 D6667 D6667 D6667	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-052-91 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97 8-719-052-97	DIODE 185119 DIODE 188119 DIODE 188119 DIODE 188119 DIODE 2834MF DIODE 188119 DIODE R02185 DIODE R02185 DIODE R02185	9-25 9-25 9-25 9-25 9-25 9-25 1-F 64F -TA 9-78 9-78 9-25 583 99-25 582 99-25 582 99-25			L652 L653 L654 L655 L656 L657 L658 Q601 Q602 Q651 Q652 Q653 Q656 Q656 Q657 Q658 Q658	1-403-588-11 1-403-588-11 1-412-519-11 1-403-588-11 1-403	CIL, CHOKE 22UH CIL, CHOKE 22UH INDUCTOR 3.3UH CIL, CHOKE 22UH CIL, CHOKE 22UH  INDUCTOR 3.3UH CIL, CHOKE 22UH  INDUCTOR 3.3UH CIL, CHOKE 22UH  ANSISTOR>  TRANSISTOR 2SC4834M TRANSISTOR 2SA1208-S TRANSISTOR 2SA1175-HFE

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \( \Lambda \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION	N -		REMARK
R606 A R607 R608 R609 R610	1-247-831-61 1-247-891-00 1-247-891-00 1-216-369-00 1-247-891-00	CARBON CARBON METAL OXIDE CARBON	330K 330K 1 330K	5% 5% 5%	1/4W 1/4W 1/4W 2W 1/4W	F	1601 4	( 1-427-950-11	NSFORMER> Transformer Transformer	LIMB PILTE		
R611 R612 R613 R614 R615	1-247-891-00 1-216-369-00 1-247-791-91 1-247-791-91 1-247-791-91	CARBON METAL OXIDE CARBON CARBON CARBON	330K 1 22 22 22 22	5% 5% 5% 5% 5%	1/4W 2W 1/4W 1/4W 1/4W	F	T604 A T605 A	X 1-427-865-11 X 1-427-865-11 X 1-427-864-11 X 1-427-860-11	TRANSFORMER TRANSFORMER	CONVERTER LINE FILTE	(PRT) R	********
R616 R631 R632 R633 R634	1-247-791-91 1-247-863-91 1-247-807-31 1-247-807-31 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	22 22K 100 100 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			*A-1331-408-A	CR BOARD, CO			
R635 R636 R651 R653 R654	1-249-425-11 1-249-413-11 1-216-370-11 1-249-418-11 1-215-473-00	CARBON CARBON METAL OXIDE CARBON METAL	4.7K 470 1.2 1.2K 150K	5% 5% 5% 5% 1%	1/4W 1/4W 2W 1/4W 1/4W	F	C701 C702 C703 C704 C705	1-104-664-11 1-107-662-11 1-161-754-00 1-126-768-11 1-102-050-00	ELECT ELECT CERAMIC ELECT CERAMIC	47MF 22MF 0.001MF 2200MF 0.01MF	20% 20% 10% 20% 99%	25V 250V 2KV 16V 500V
R655 R656 R657 R658 R659	1-249-441-11 1-216-369-00 1-249-429-11 1-247-883-00 1-249-417-11	CARBON METAL OXIDE CARBON CARBON CARBON	100K 1 10K 150K 1K	5% 5% 5% 5%	1/4W 2W 1/4W 1/4W 1/4W	F	C706 C707 C708 C709 C710	1-102-965-00 1-102-129-00 1-104-664-11 1-107-651-11 1-102-157-00	CERAMIC CERAMIC BLECT ELECT CERAMIC	39PF 0.01MF 47MF 4.7MF 560PF	5% 10% 20% 20% 10%	50V 50V 25V 250V 500V
R660 R661	1-249-417-11 1-215-471-00	CARBON METAL	1K 120K	5% 1%	1/4W 1/4W		C714	1-162-115-00	CERAMIC	330PF	10%	2KV
R664 R665	1-249-429-11 1-249-425-11	CARBON CARBON	10K 4.7K	5% 5%	1/4W 1/4W		CN701	<00! *1-508-784-00	NECTOR>	TOR (SWM PI	ጥርዘ) 1P	
R666 R667 R670 R672 R673	1-249-429-11 1-249-429-11 1-247-895-00 1-247-807-31 1-249-423-11	CARBON CARBON	10K 10K 470K 100 3.3K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		CN702 CN703 CN704 CN705	*1-564-510-11 *1-564-512-11 *1-564-512-11 *1-564-511-11	PLUG, CONNE PLUG, CONNE PLUG, CONNE PLUG, CONNE	SCTOR 7P SCTOR 9P SCTOR 9P SCTOR 8P	, (1)	
R674 R675 R676 R677 R678	1-249-413-11 1-249-429-11 1-249-421-11 1-249-417-11 1-249-423-11	CARBON CARBON	470 10K 2.2K 1K 3.3K	5%	1/4W 1/4W 1/4W 1/4W 1/4W		14784	1-695-915-11 *1-564-506-11 <di< td=""><td>SOCKET PH</td><td>THE THE</td><td></td><td></td></di<>	SOCKET PH	THE THE		
R679 R680 R681 R682 R683	1-249-423-11 1-249-413-11 1-249-425-11 1-249-403-11 1-249-417-11	CARBON CARBON CARBON	3.3K 470 4.7K 68 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		D701 D702 D703 D704 D705	8-719-911-19 8-719-911-19 8-719-911-19 8-719-110-36 8-719-987-87	DIODE 1881 DIODE 1881 DIODE RD13	19-25 19-25 ESB2		
R684 R685 R686 R687 R688	1-249-417-11 1-247-863-91 1-249-429-11 1-249-423-11 1-249-423-11	CARBON CARBON CARBON	1K 22K 10K 3.3K 3.3K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		D706 D707 D708 D710 D711	8-719-911-19 8-719-110-36 8-719-901-83 8-719-109-89 8-719-911-19	DIODE RD13 DIODE 1558 DIODE RD5.	ESB2 3 6ESB2		
R689 R690 R691 R693 R694	1-249-429-11 1-247-863-91 1-249-417-11 1-249-425-11 1-249-425-11	CARBON CARBON CARBON	10K 22K 1K 4.7K 4.7K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		D713 D715 D716 D717	8-719-510-48 8-719-901-83 8-719-110-36 8-719-110-36	DIODE 1888 DIODE RD13	3 ESB2		
R695 R697 R698 R699	1-249-429-11 1-249-413-11 1-249-429-11 1-249-417-11	CARBON CARBON	10K 470 10K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		1070	<10 8-759-168-72		Q		
	<re< td=""><td>CLAY&gt;</td><td></td><td></td><td></td><td></td><td>L701</td><td>1-408-429-00</td><td>IL&gt; INDUCTOR</td><td>470UH</td><td></td><td></td></re<>	CLAY>					L701	1-408-429-00	IL> INDUCTOR	470UH		
RY601	<u>А</u> 1-755-032-1 <b>А</b> 1-755-032-1	BELAY RELAY					L703	1-408-159-00	COIL, SPOO	OK CHOKE 3.30	UH	



Les composants identifies par une trame et une marque \(\frac{\Lambda}{\text{sont}}\) critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
NL70I	1-519-108-XX						D731 D732 D735 D736 D737	8-719-110-36 8-719-901-83 8-719-901-83 8-719-510-48 8-719-110-36	DIODE 1883 DIODE DINZOR			
	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td>1</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></tra<>	NSISTOR>			1		1					
Q701	8-729-119-76	TRANSISTOR 2	SA1175-	HFE				<1C>				
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td>10731</td><td>8-759-168-72</td><td>IC TDA6101Q</td><td></td><td></td><td></td></res<>	ISTOR>					10731	8-759-168-72	IC TDA6101Q			
R701	1-215-411-00		390	1%	1/4₩			<001	L>			
R702 R704 R706 R707	1-215-414-00 1-202-847-00 1-249-407-11 1-215-423-00	METAL SOLID CARBON METAL	510 560K 150 1.2K	1% 20% 5% 1%	1/4W 1/2W 1/4W 1/4W		L731 L732	1-408-429-00 1-408-159-00		470UH CHOKE 3.3UH		
R708	1-202-883-11	SOLID	680K	20%	1/2W			<neo< td=""><td>N LAMP&gt;</td><td></td><td></td><td>•</td></neo<>	N LAMP>			•
R709 R710 R711 R712	1-215-437-00 1-215-427-00 1-215-427-00 1-215-903-11	METAL METAL METAL METAL OXIDE	4.7K 1.8K 1.8K 68K	1% 1% 1% 5%	1/4W 1/4W 1/4W 2W	F	NL731	1-519-108-XX	LAMP, NEON		•	
R713	1-202-818-00	SOLID	1K	20%	1/2W			<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
R714 R715 R716 R718	1-202-818-00 1-249-436-11 1-249-437-11 1-249-417-11	SOLID CARBON CARBON CARBON	1K 39K 47K 1K	20% 5% 5% 5%	1/2W 1/4W 1/4W 1/4W		R731 R733 R734 R735 R736	1-202-847-00 1-202-883-11 1-202-818-00 1-249-407-11 1-249-441-11	SOLID	560K 20% 680K 20% 1K 20% 150 5% 100K 5%	1/2W 1/2W 1/2W 1/4W 1/4W	
R719 R720 R721 R722	1-247-807-31 1-249-437-11 1-202-549-00 1-202-549-00	CARBON CARBON SOLID SOLID	100 47K 100 100	5% 5% 20% 20%	1/4W 1/4W 1/2W 1/2W		R737 R738 R739 R740 R741	1-202-818-00 1-202-549-00 1-215-420-00 1-215-427-00 1-249-437-11	SOLID METAL METAL	1K 20% 100 20% 910 1% 1.8K 1% 47K 5%	1/2W 1/2W 1/4W 1/4W 1/4W	
	<spa< td=""><td>RK GAP&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>P</td></spa<>	RK GAP>										P
SG702		GAP, SPARK					R742	1-215-903-11		68K 5%	2W	F
SG703	1-519-422-11	GAP, SPARK					CORDA		RK GAP>			
*****	************ *A-1331-409-A		MPLETE	*****	******	*******	SG732	1-519-422-11 1-519-422-11 1-519-422-11	GAP. SPARK			
							i	**********			******	******
C731	<cap< td=""><td>ACITOR&gt; CERAMIC</td><td>0.0011</td><td>(P</td><td>10%</td><td>2KV</td><td></td><td>*A-1331-410-A</td><td>CB BOARD, CO</td><td></td><td></td><td></td></cap<>	ACITOR> CERAMIC	0.0011	(P	10%	2KV		*A-1331-410-A	CB BOARD, CO			
C732 C733	1-107-662-11 1-102-050-00	ELECT CERAMIC	22MF 0.01MF		20% 99%	250V 500V		<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td></cap<>	ACITOR>			
C736 C738	1-126-964-11 1-107-651-11	ELECT ELECT	10MF 4.7MF		20% 20%	50V 250V	C761	1-161-754-00	CERAMIC	0.001MF	10%	2ŘV
C739 C740 C741 C742	1-164-066-11 1-126-964-11 1-102-157-00 1-162-115-00	CERAMIC BLECT CERAMIC CERAMIC	68PF 10MF 560PF 330PF		5% 20% 10% 10%	50V 50V 500V 2KV	C762 C763 C766 C769	1-107-662-11 1-102-050-00 1-107-651-11 1-164-066-11	ELECT CERAMIC ELECT CERAMIC	22MF 0.01MF 4.7MF 68PF	20% 99% 20% 5%	250V 500V 250V 50V
0142		INECTOR>	77055		10,6	∆n ¥	C770	1-126-964-11 1-102-157-00	ELECT CERAMIC	10MF 560PF	20% 10%	50V 500V
CN721	*1-508-784-00		UB (EN	/ ptw/	"U\ 1D		C772	1-162-115-00	CERAMIC	330PF	10%	2KV
CN732	*1-564-512-11 *1-564-512-11	PLUG, CONNEC PLUG, CONNEC	TOR 9P	1 111	ou) If			<con< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td></con<>	INECTOR>			
CN734	*1-564-511-11 *1-564-509-11	PLUG, CONNEC PLUG, CONNEC	TOR 8P				CN762	*1-508-784-00 *1-564-512-11 *1-564-500-11	PLUG, CONNEC	TOR 9P	CH) 1P	
CN736	1-695-915-11 A 1-251-179-11	TAB (CONTACT	)	i i			CN766	*1-564-509-11 1-695-915-11 1 251 179-11	PLUG, CONNECTAB (CONTACT	')		
									CUCNUI, FILL	SOR FORC		
	<d10< td=""><td>IDE&gt;</td><td></td><td></td><td></td><td></td><td></td><td>&lt;010</td><td>IDE&gt;</td><td></td><td></td><td></td></d10<>	IDE>						<010	IDE>			

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque  $\Lambda$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
D761 D762	8-719-110-36 8-719-901-83 8-719-911-19 8-719-110-36 8-719-110-36 8-719-901-83 8-719-510-48 8-719-110-36 <ic></ic>	DIODE RD13ESB DIODE 15S83	2				C814 C815	1-124-122-11 1-162-114-00 1-109-833-11 1-130-489-00	ELECT CERAMIC FILM	0.0047MF	20% 3% 5%	50V 2KV 1.8KV 50V
D764 D765	8-719-110-36 8-719-110-36	DIODE RD13ESB DIODE RD13ESB	2 2				i	1-124-902-00 1-136-601-11 1-126-964-11 1-162-318-11		0.47MF 0.01MF	20% 5%	50V 630V
D767 D768 D769	8-719-901-83 8-719-510-48 8-719-110-36	DIODE 1SS83 DIODE DIN2OR DIODE RD13ESB	2				C824 C825 C826	1-130-467-00	FILM	10MF 0.001MF 470PF	20% 10% 5%	50V 500V 50V
I CDC 1	<10>	I.C. WD.1.C.1.O.1.O.					C827 C828 C830	1-107-652-11 1-111-036-91 1-107-368-11 1-126-934-11		10MF 470MF 0.047MF 220MF	20% 20% 10% 20%	250V 16V 200V 16V
16761	0 137 100 12	10 10101014					C831 C832	1-124-927-11	ELECT	4.7MF	20%	50V
L761 L762	<011 1-408-429-00 1-408-159-00	INDUCTOR	470UH CHOKE 3.	I .3UH			C901 C902 C903 C904	1-137-370-11 1-137-361-11 1-137-358-11	FILM FILM	0.01MF 330PF 0.0001MF	5%% 5%% 5%%	50V 50V 50V 50V
		N LAMP>					C905			100MF 0.01MF	20% 5%	25V 50V
NL760	1-519-108-XX						C907 C908 C909	1-137-370-11 1-104-665-11 1-137-361-11 1-124-903-11 1-163-117-00	FILM ELECT	100MF 330PF 1MF	20% 5% 20% 5%	25V 50V 50V 50V
		ISTOR>					C912	1-124-903-11			20%	50 <b>V</b>
R761 R763 R764 R767 R768	1-202-847-00 1-202-883-11 1-202-818-00 1-202-818-00 1-202-549-00	SOLID SOLID SOLID SOLID SOLID	560K 680K 1K 1K 100	20% 20% 20% 20% 20%	1/2W 1/2W 1/2W 1/2W 1/2W		C913 C915 C916 C917	1-124-903-11 1-124-903-11 1-163-105-00 1-124-927-11 1-126-964-11	ELECT	1MF 33PF 4.7MF 10MF	20% 5% 20% 20%	50V 50V 50V 50V
R769 R770 R771 R773	1-215-421-00 1-249-426-11 1-215-427-00 1-215-903-11	METAL CARBON METAL METAL OXIDE	1K 5.6K 1.8K 68K	1%	1/4W 1/4W 1/4W 1/4W 2W 1/4W	F	C918 C919 C920 C921 C923	1-137-364-11 1-126-964-11 1-124-902-00 1-126-964-11 1-126-964-11	FILM ELECT ELECT ELECT ELECT	0.001MF 10MF 0.47MF 10MF 10MF	5% 20% 20% 20% 20%	50V 50V 50V 50V 50V
R774 R775	1-249-407-11 1-202-549-00	SOLID	150 100	20%	1/2W		C924 C925 C926 C927	1-126-940-11 1-137-372-11 1-104-665-11 1-137-364-11	FILM BLECT	330MF 0.022MF 100MF 0.001MF	20% 5% 20% 5%	16V 50V 25V 50V
	<spa< td=""><td>RK GAP&gt;</td><td></td><td></td><td></td><td></td><td>C929</td><td>1-137-416-11</td><td>FILM</td><td>0.01MF</td><td>10%</td><td>100V</td></spa<>	RK GAP>					C929	1-137-416-11	FILM	0.01MF	10%	100V
SG762	1-519-422-11 1-519-422-11 1-519-422-11	GAP, SPARK GAP, SPARK GAP, SPARK					C930 C931 C932 C934	1-137-364-11 1-126-967-11 1-124-903-11 1-137-370-11	FILM ELECT ELECT FILM	0.001MF 47MF 1MF 0.01MF	5% 20% 20% 5%	50V 50V 50V 50V
*****	**********	******	******	*****	*****	******	C935	1-137-399-11	FILM	O.IMF	10%	100V
	*A-1341-885-A	E BOARD, COM					C936 C937 C938	1-126-964-11 1-126-964-11 1-126-940-11	ELECT	10MF 10MF 330MF	20% 20% 20%	50V 50V 16V
	1-923-505-05 4-365-216-00 4-382-854-11	WIRE UL1007 SPACER, MICA SCREW (M3X10			Y		C939 C940	1-126-964-11 1-104-663-11	ELECT	10MF 33MF	20% 20%	50V 25V
	<caf< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td><td></td><td>C941 C942 C943</td><td>1-126-964-11 1-104-663-11 1-128-551-11</td><td>ELECT ELECT</td><td>10MF 33MF 22MF</td><td>20% 20% 20%</td><td>50V 25V 50V</td></caf<>	PACITOR>					C941 C942 C943	1-126-964-11 1-104-663-11 1-128-551-11	ELECT ELECT	10MF 33MF 22MF	20% 20% 20%	50V 25V 50V
C801	1-110-626-11	ELECT	330MF		20%	160V	C944 C945	1-126-964-11 1-126-964-11		10MF 10MF	20% 20%	50 <b>V</b> 50 <b>V</b>
C802 C803 C805 C806	1-163-117-00 1-110-626-11 1-136-173-00 1-102-030-00	CERAMIC CHIP ELECT FILM CERAMIC	330MF 0.47MF 330PF	1	5% 20% 5% 10%	50V 160V 50V 500V	C946 C947 C948 C949	1-124-925-11 1-104-665-11 1-104-665-11 1-126-964-11	ELECT ELECT	2.2MF 100MF 100MF 10MF	20% 20% 20% 20%	50V 25V 25V 50V
C807 C808 C809	1-106-387-00 1-107-636-11 1-104-664-11	MYLAR ELECT ELECT	0.068M 10MF 47MF		10% 20% 20%	200V 160V 25V	C950 C951	1-126-964-11 1-124-903-11	ELECT ELECT	10MF 1MF	20% 20%	50V 50V
C810 C811	1-130-481-00 1-137-475-11	FILM FILM	0.0068 2.2MF	SMF	5% 10%	50V 250V	C953 C954 C955	1-163-009-11 1-126-964-11	ELECT	0.001MF 10MF	10% 10% 20%	50V 50V 50V
C812	1-128-551-11	ELECT	22MF		20%	50V	¦ C980	1-137-368-11	FILM	0.0047MF	5%	50V



REF. NO. PART NO.

DESCRIPTION

REMARK | REF. NO. PART NO.

DESCRIPTION

REMARK

The components identified by shading and mark ∆ are critical for safety.

Replace only with part number

specified.

1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH FB002 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH

<FERRITE BEAD>

### <10>

composants identifies par

une trame et une marque \(\Lambda\) sont critiques pour la securite. Ne les remplacer que par une

iece portant le numero specifie.

IC901 8-759-133-90 IC UPC339C IC902 8-759-133-90 IC UPC339C IC903 8-759-711-28 IC NJM2058D IC904 8-759-634-51 IC M5218AP IC905 8-759-929-65 IC LM7912CT IC906 8-759-701-79 IC NJM7812FA

### <COIL>

1-406-665-11 COIL, CHOKE 100UH 1-406-665-11 COIL, CHOKE 100UH 1-422-613-11 COIL, AIR CORE 1-411-286-11 COIL, CHOKE 220UH L801 L802 L803 L804 1-408-416-00 INDUCTOR L901 39UH

L902 1-408-416-00 INDUCTOR 39UH

### <NEON LAMP>

NL802 1-519-108-XX LAMP, NEON

	<tra< th=""><th>NSTSTOR&gt;</th><th></th><th></th></tra<>	NSTSTOR>		
Q801 Q802 Q803 Q806 Q807	8-729-119-80 8-729-119-80 8-729-122-12 8-729-805-07 8-729-120-28	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q808 Q809 Q810 Q811 Q813	8-729-024-30 8-729-823-81 8-729-231-55 8-729-823-81 8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1RF1640LF 2SC4632LS-CB7 2SC2878AB 2SC4632LS-CB7 2SA1162-G	
Q901 Q902 Q903 Q904 Q905	8-729-120-28 8-729-140-93 8-729-140-96 8-729-120-28 8-729-120-28	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SB733-34 2SD774-34 2SC1623-L5L6 2SC1623-L5L6	
Q906 Q907 Q908 Q909 Q910	8-729-120-28 8-729-231-55 8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6	
Q911 Q912 Q913 Q914 Q915	8-729-120-28 8-729-216-22 8-729-900-36 8-729-120-28 8-729-120-28	TRANSISTOR TRANSISTOR TRANSISTOR		
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td></res<>	ISTOR>		
R801 R802 R804 R805 R806	1-216-041-00 1-249-421-11 1-249-425-11 1-216-435-11 1-249-431-11	METAL GLAZI CARBON CARBON METAL OXID CARBON	2.2K 5% 4.7K 5%	1/10W 1/4W 1/4W 1W 1/4W

1-260-325-11 CARBON

• The components identified by M in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

560

5%

1/2W

1/4W F

CJ901 1-216-295-00 CONDUCTOR, CHIP CJ902 1-216-295-00 CONDUCTOR, CHIP

### <CONNECTOR>

CN802 \*1-564-510-11 PLUG, CONNECTOR 7P CN805 1-695-915-11 TAB (CONTACT) CN827 \*1-573-963-11 PIN, CONNECTOR (PC BOARD) 3P CN851 \*1-564-509-11 PLUG, CONNECTOR 6P CN881 \*1-573-986-11 PIN, CONNECTOR (PC BOARD) 5P CN882 \*1-691-135-11 PIN, CONNECTOR (PC BOARD) 4P CN884 \*1-573-964-11 PIN, CONNECTOR (PC BOARD) 6P CN885 \*1-506-371-00 PIN, CONNECTOR 2P CN886 \*1-506-371-00 PIN, CONNECTOR 2P CN904 \*1-564-507-11 PLUG, CONNECTOR 4P

### <DIODE>

	CDIU	nr>	
D801	8-719-109-85	DIODE RD5.1ESB2	
D802	8-719-404-46	DIODE MA110	
D803	8-719-971-20	DIODE ERC38-06	
D804	8-719-908-03	DIODE GPO8D	
D805	8-719-945-80	DIODE BRC06-15S	
D806	8-719-911-19	DIODE 1SS119-25	
D807	8-719-945-80	DIODE ERCO6-15S	
D808	8-719-500-71	DIODE D8LC40F	
D809	8-719-911-19	DIODE 1SS119-25	
D810	8-719-945-80	DIODE ERCO6-15S	
D811	8-719-920-67	DIODE ERC91-02	
D812	8-719-404-46	DIODE MA110	
D814	8-719-920-67	DIODE ERC91-02	
D816	8-719-404-46	DIODE MA110	
D817	8-719-404-46	DIODE MA110	
D818	8-719-404-46	DIODE MA110	
D819	8-719-105-82	DIODE RD5.1M-B2	
D901	8-719-404-46	DIODE MA110	
D902	8-719-404-46	DIODE MA110	
D904	8-719-404-46	DIODE MA110	
D905	8-719-404-46	DIODE MA110	
D907	8-719-404-46	DIODE MA110	
D908	8-719-105-82	DIODE RD5.1M-B2	
D909	8-719-302-43	DIODE EL1Z	
D911	8-719-105-82	DIODE RD5.1M-B2	
D912	8-719-105-82	DIODE RD5.1M-B2	
D913	8-719-404-46	DIODE MA110	
D914	8-719-404-46	DIODE MA110	
D915	8-719-404-46	DIODE MA110	
D916	8-719-105-57	DIODE RD3.9M-B1	
D917	8-719-404-46	DIODE MA110	
D918	8-719-404-46	DIODE MA110	
D919	8-719-106-81	DIODE RD13M-B3	
D920	8-759-157-40	DIODE UPC574J	
D921	8-719-106-81	DIODE RD13M-B3	
D922	8-719-404-46	DIODE MA110	
D923	8-719-404-46	DIODE MA110	
D924	8-719-404-46	DIODE MA110	
D925	8-719-105-45	DIODE RD3.3M-B1	
D926	8-719-404-46	DIODE MA110	
D927	8-719-105-73	DIODE RD4.7M-B2	

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
<b>H</b> R809 <b>A</b>		CARBON			1/40		R928	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R810 R811 R812 R813	1-249-427-11 1-216-097-00 1-216-395-00 1-216-484-00	CARBON METAL GLAZE METAL OXIDE METAL OXIDE	100K 3.3 3.9K	5% 5% 5%	1/4W 1/10W 3W 3W 3W	F F	R929 R930 R931 R932 R933	1-216-041-00 1-216-081-00 1-216-059-00 1-216-059-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 22K 2.7K 2.7K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	1-216-051-00 1-216-395-00 1-249-405-11 1-216-083-00	METAL OXIDE METAL GLAZE METAL OXIDE CARBON METAL GLAZE		5% 5% 5%	1/10W 3W 1/4W 1/10W	F F	R934 R935 R936 R937	1-216-085-00 1-216-049-00 1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 1K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R820 R821 R822 R823 R825	1-215-905-11 1-216-073-00 1-215-928-11 1-216-047-00 1-215-928-11	METAL OXIDE METAL GLAZE METAL OXIDE METAL GLAZE METAL OXIDE	10 10K 68K 820 68K	5% 5%	3W 1/10W 3W 1/10W 3W	r F	R938 R939 R940 R941 R942 R943	1-208-810-11 1-216-073-00 1-216-083-00 1-216-091-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 10K 27K 56K 1K	0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R826 R830 R831 R832 R835	1-216-033-00 1-215-928-11 1-215-919-11 1-216-049-00 1-249-474-11	METAL GLAZE METAL OXIDE METAL OXIDE METAL GLAZE CARBON	220 68K 2.2K 1K 1	5% 5% 5% 5%	1/10W 3W 3W 1/10W 1/2W	F F	R943 R944 R945 R946	1-249-377-11 1-216-689-11 1-216-077-00 1-216-073-00	CARBON  METAL GLAZE  METAL GLAZE  METAL GLAZE	0.47 39K 15K 10K	5% 5% 5%	1/4W 1/10W 1/10W 1/10W	F.
R836 R837 R838 R839 R841	1-202-818-00 1-215-870-11 1-247-807-31 1-249-429-11 1-216-491-11	SOLID METAL OXIDE CARBON CARBON METAL OXIDE		20% 5% 5% 5% 5%	1/2W 1W 1/4W 1/4W	F	R947 R948 R950 R952 R954	1-216-025-00 1-216-051-00 1-216-049-00 1-216-049-00 1-214-777-00		100 1.2K 1K 1K 100K 47K		1/10W 1/10W 1/10W 1/10W 1/4W	
R843 R844 R846 R847	1-202-549-00 1-216-491-11 1-202-838-00 1-216-073-00	SOLID METAL OXIDE SOLID		204	1 /26		1 11955	1-214-77-00 1-214-769-00 1-208-806-11 1-218-754-11 1-218-756-11	METAL CHIP	120K 150K	0.50%	1/4W 1/10W	
R849 R850 R851 R852	1-216-667-11 1-208-806-11	CARBON  METAL GLAZE  METAL CHIP  METAL CHIP	22K 22K 4.7K 10K	5% 5% 0.50% 0.50%	1/4W 1/10W 1/10W 1/10W	F	R959 R960 R962	1-214-757-00 1-216-077-00 1-208-806-11 1-214-749-00	METAL METAL GLAZE METAL CHIP	15K 15K 10K	1% 5% 0.50%	1/4W 1/10W 1/10W 1/4W	
R854 R855 R856 R857 R858	1-249-381-11 1-208-822-11 1-208-822-11 1-218-755-11 1-216-676-11	CARBON METAL CHIP METAL CHIP METAL CHIP METAL CHIP	47K 130K	0.50% 0.50% 0.50% 0.50%	1/4W 1/10W 1/10W 1/10W	ř.	R964 R965 R966 R967	1-214-757-00 1-216-097-00 1-214-757-00 1-216-025-00	METAL METAL GLAZE	15K 100	1% 5%	1/4W 1/10W 1/4W 1/10W	
R901 R902 R903 R904	1-216-065-00 1-216-065-00 1-216-085-00 1-216-057-00	METAL GLAZE METAL GLAZE	4.7K 4.7K	5% 5%	1/10W 1/10W		R969 R970 R971 R972	1-214-751-00 1-214-731-00 1-214-757-00 1-216-121-00 1-216-699-11	METAL CITT	1001	0.30%	1/4W 1/4W 1/10W 1/10W	
R905 R906 R907	1-247-739-11 1-247-739-11 1-216-091-00 1-216-085-00	CARBON CARBON METAL GLAZE METAL GLAZE	100 100 56K	5% 5% 5% 5% 5%	1/2W 1/2W 1/10W	F	R973 R974 R975 R976 R977	1-216-081-00 1-216-699-11 1-216-043-91 1-216-041-00 1-216-075-00	METAL GLAZE METAL GLAZE	22K 100K 560 470 12K	5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R909 R910 R911 R912	1-216-113-00 1-216-059-00 1-216-059-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 2.7K 2.7K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R978 R979 R980 R981	1-216-057-00 1-216-075-00 1-216-081-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 12K 22K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R913 R914 R915 R916 R917	1-216-077-00 1-216-049-00 1-216-091-00 1-216-065-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 1K 56K 4.7K 2.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R982 R983 R984 R985	1-216-083-00 1-208-812-11	METAL CHIP  METAL GLAZE METAL GLAZE METAL CHIP	6.8K 27K 18K	0.50% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	
R918 R919 R920 R921 R922	1-216-073-00 1-216-077-00 1-216-113-00 1-216-059-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 15K 470K 2.7K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R986 R987 R988 R989 R990	1-216-049-00 1-216-059-00 1-216-462-00 1-215-897-11	METAL GLAZE METAL GLAZE METAL OXIDE	1K 2.7K 8.2K 6.8K	5%	1/10W 1/10W 1/10W 2W 2W	F F
R923 R924 R926 R927	1-216-077-00 1-216-067-00 1-216-049-00 1-249-377-11	METAL GLAZE METAL GLAZE METAL GLAZE	15K 5.6K 1K 0.47	5% 5%	1/10W 1/10W 1/10W 1/10W		R991 R992 R993 R994	1-208-803-11 1-249-431-11 1-249-431-11 1-247-807-31	METAL CHIP CARBON CARBON	7.5K 15K 15K 100	0.50% 5% 5%		

The components identified by 
in this
manual have been carefully factory-selected
for each set in order to satisfy regulations
regarding X-ray radiation.
Should replacement be required, replace
only with the value originally used.

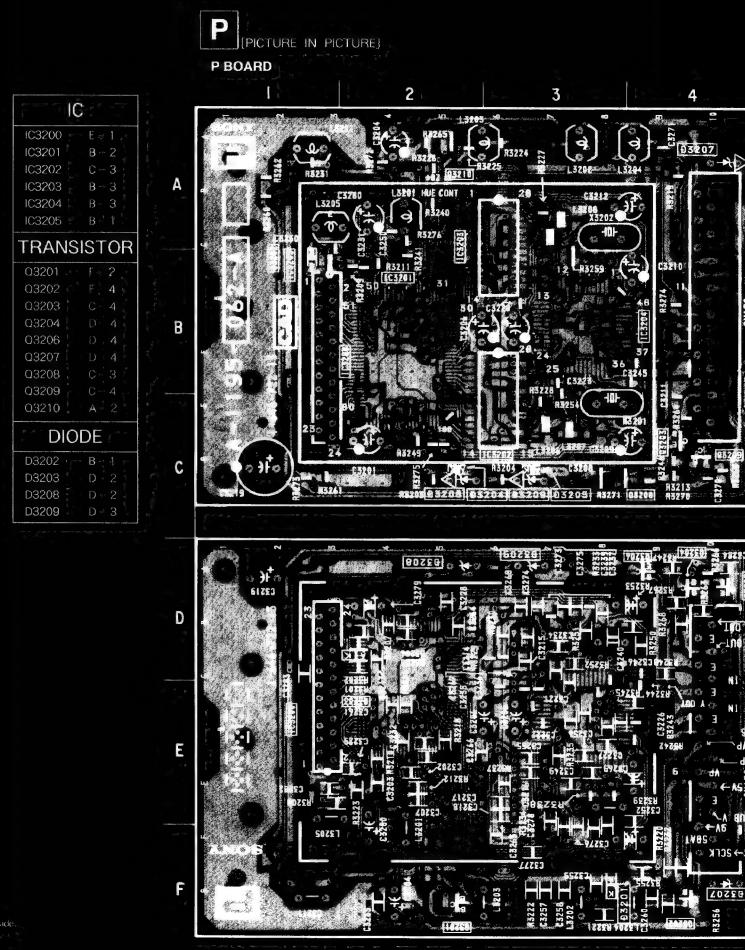


- M BOARD

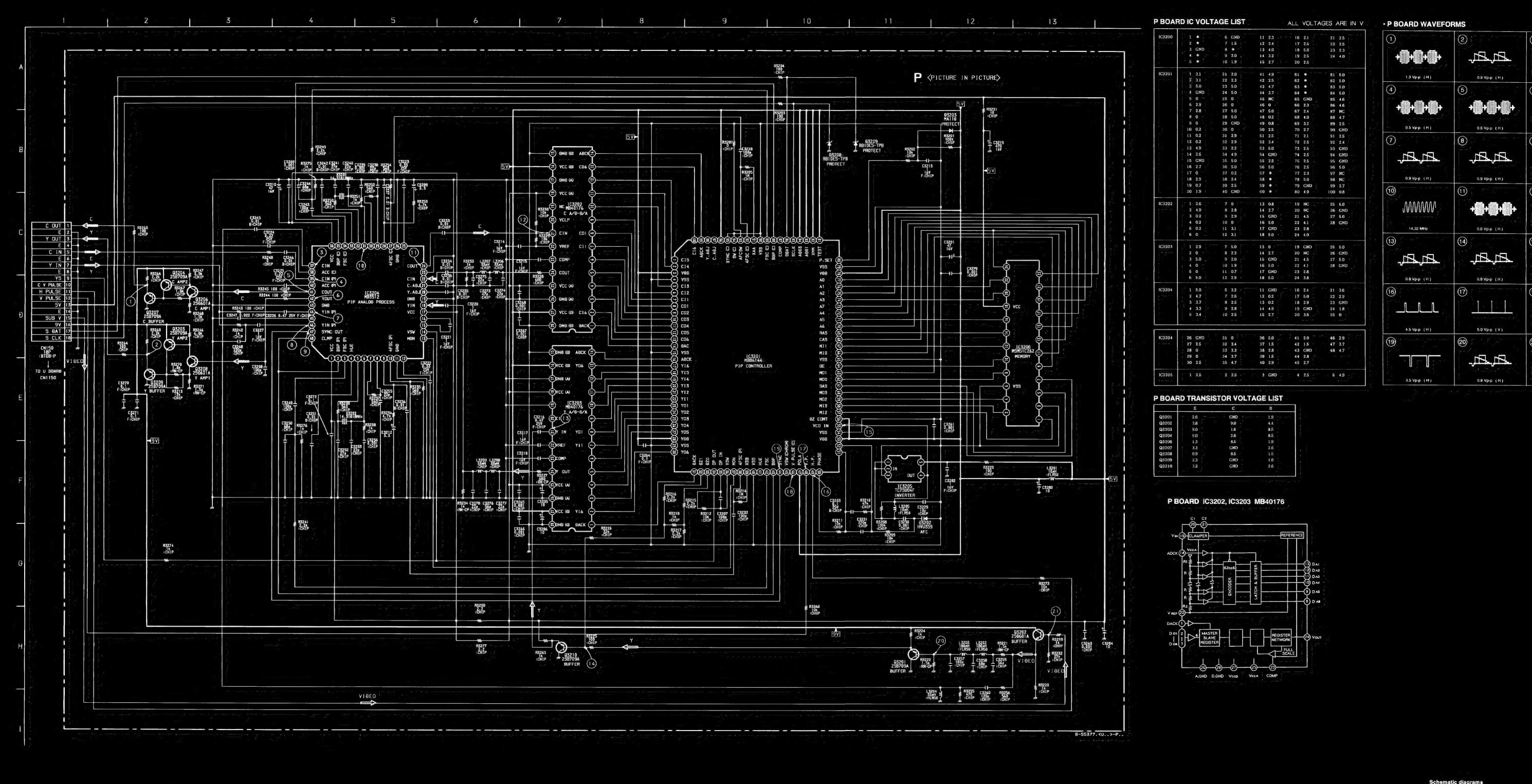
5 8 9 CN357 CN351w available YE CLEH CLEH PROTE PROTE TY OUT TY E 2MB A EXT II VAR L EXT II VAR L NC SIRCS G

### M BOARD

M BOARD	
TEICE	DIODE
IC001 A - 8	D001 - A - 8
IC002 C-8	D002 D-8
IC003 C - 7	D003 D-9
IC004 F = 8	D004 B-7
IC005 / B = 7	D005 C = 7
IC006 E = 7	D006 C-6
IC301 C - 5	D007 D-6
IC302 F = 2 F	D008 D = 7
TRANSISTOR	D009
Q001 - E-9 -	D011 F = 7
Q002 E-7	D012 F = 7
Q003 E 6	D013 F + 7
Q004 E - 7	D014 F = 7
Q005 G-8	D015 F-7
Q006 F 7	D016   F-7 2
<b>Q007</b> F ÷ 7	D017 A ~ 7
Q008 F = 7	D018 F = 5
Q009 F 7	D019 F-3
Q010 5 F # 7	D020 B – 7
Q011 F = 7	D305 D 5
Q012 F 7	D307 C-5
Q017 A - 7	D308 E - 5
Q018 A - 5	D309 D - 5 D310 E - 5
Q019 A - 6 Q301 D - 6	D310 E - 5 D311 E - 5
Q302 C-3	D312 B - 5
Q303 C-4	D313 E-4
Q304 C-4	D314 E-4
Q305 C-5	D315 E-5
Q307 C-5	D316 E-5
Q308 E-4	D317 D-3
Q309 D-4	D320 B-3
Q310 E-4	D321 D-2
Q311 D-4	D322 C-2
0312 E-3	D323 C-2
Q313 E-5	D324 C-2
Q314 D-3	D325 C - 2
Q315 D-3	D326 C - 5
0316 C-3	D327 E 5
0317 D ÷ 2	D328 F - 3
Q318 C-2	in the second se
Q319 C-3	
0320 C - 2	#0.50 W
0321 B - 2	*
Q322 E + 4	No.



Pattern of the rear sic



- 66

0.5 Vp-p (H)

TH, FR.

0.9 Vp-p (H)

3.5 Vp-p (H)

0.6 Vp-p (H)

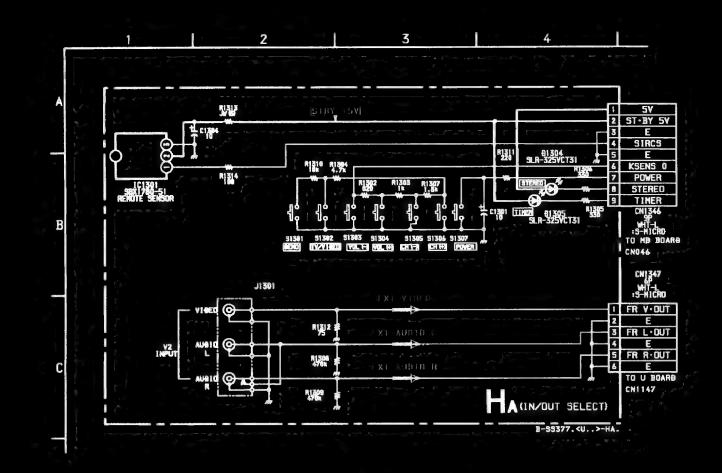
WWW

5.0 Vp-p (V)

1.7 Vp-p (H)

board

\_ 67 \_



HA BOARD IC VOLTAGE LIST

1 5.1 2 5.1 3 GND

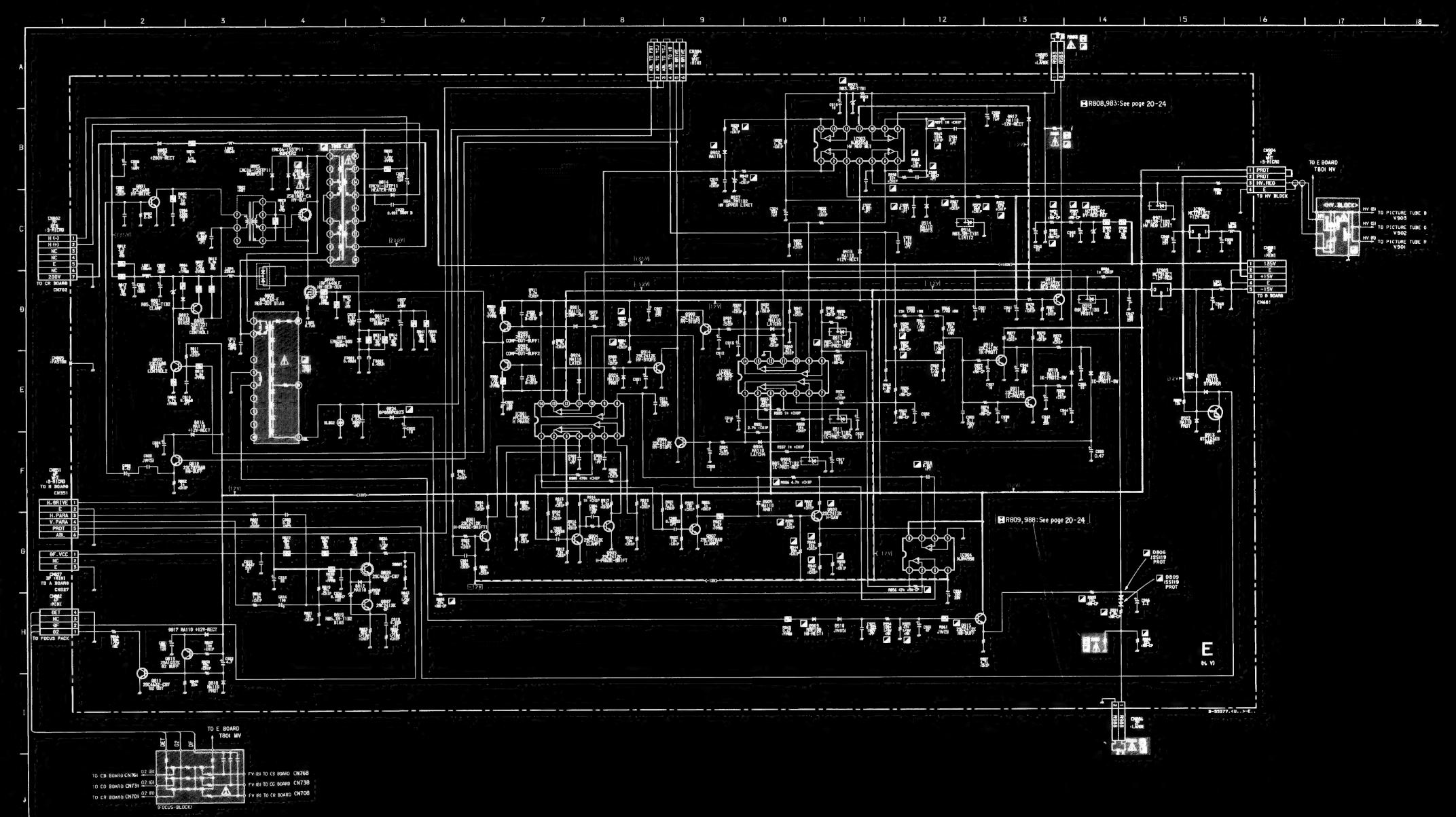
ALL VOLTAGES ARE IN V

(C901	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-6.3 🐤 🚭	4	3.9		4.8	10	
E .	<sub>j</sub> ( 2	6.3	5	7.7	8	2.5	11	0 14 2.0
` _	1 3	12.0	6	7.7	9	2.8	12	-120
IC902	[ 1	0.2	4	5.2	7	0	10	4.0 13 0.2
	2	0	5	4.8	8	5.2	11	0 14 0
la mega	[ 8 <b>3</b>	12.0	6	5.2	9	5.0	12	GND
IC903	1.1	3.9 1 10 10	4	11.6	7	7.6	10	7.6
1	2	3.9	5	7.6	8	3.9	11	-11.1
	1 3	3.9	6	7.6	9	7.6	12	OA to Burner
IC904	17.1	8.9	3	8.9	- 5	GND -	7	22 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	1 2	8.9	4	-12.0	6	0.2	8	120
IC905	~ 1	-120	2	-15.0	3	GND =		

	Ē	C	В
Q801	GND	106.7	-0.3
Q802	2.1	131.7	2.5
Q803	1323	106.8	131.7
Q806	51.9	135.6	51.9
Q807	2.7	11.6	3.3
Q809	119	354.D	123
Q810	2.1	11.7	2.6
Q811	GND	6420	0
Q813	12.3	<ul> <li>O □ np<sup>22</sup></li> </ul>	123
Q901	GND	3.9	0.3
Q902	1.9	-12.0	2.0
Q903	1.9	12.0	2.0
Q904	GND	0.6	0.0
2905	GND -	7.7	0.2
Q906	GND	2.6	0.2
Q907	GND '	0.6	0.5
Q908	GND	2.6	0.2
Q909	0.2	2.2	-2.1
Q910	GND	0	0.7
Q911	GND	0	0.7
Q912	10.7	GND	10.1
Q913	GND	3.4 °cd	<b>-0.3</b>
Q914	GND	2.6	-0.6
Q915	0 -0	12.0	0
	S	D	G
2808	0		- 19 / -

-71 -

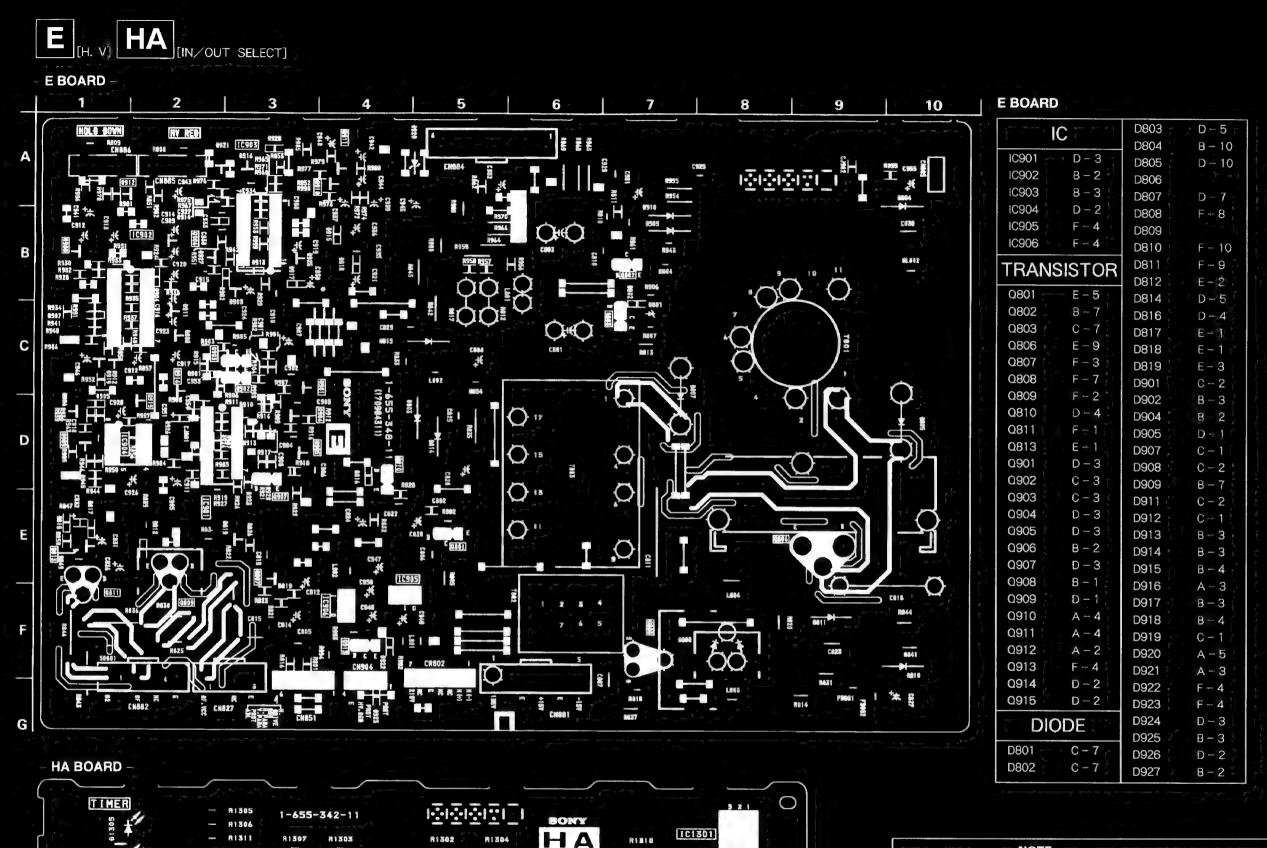
**— 70** —



**- 73** -

72 —

**-74** -





### NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

CH (+)

CH (-)

R1509

VOL (+) VOL (-)

TV/VIĐEO

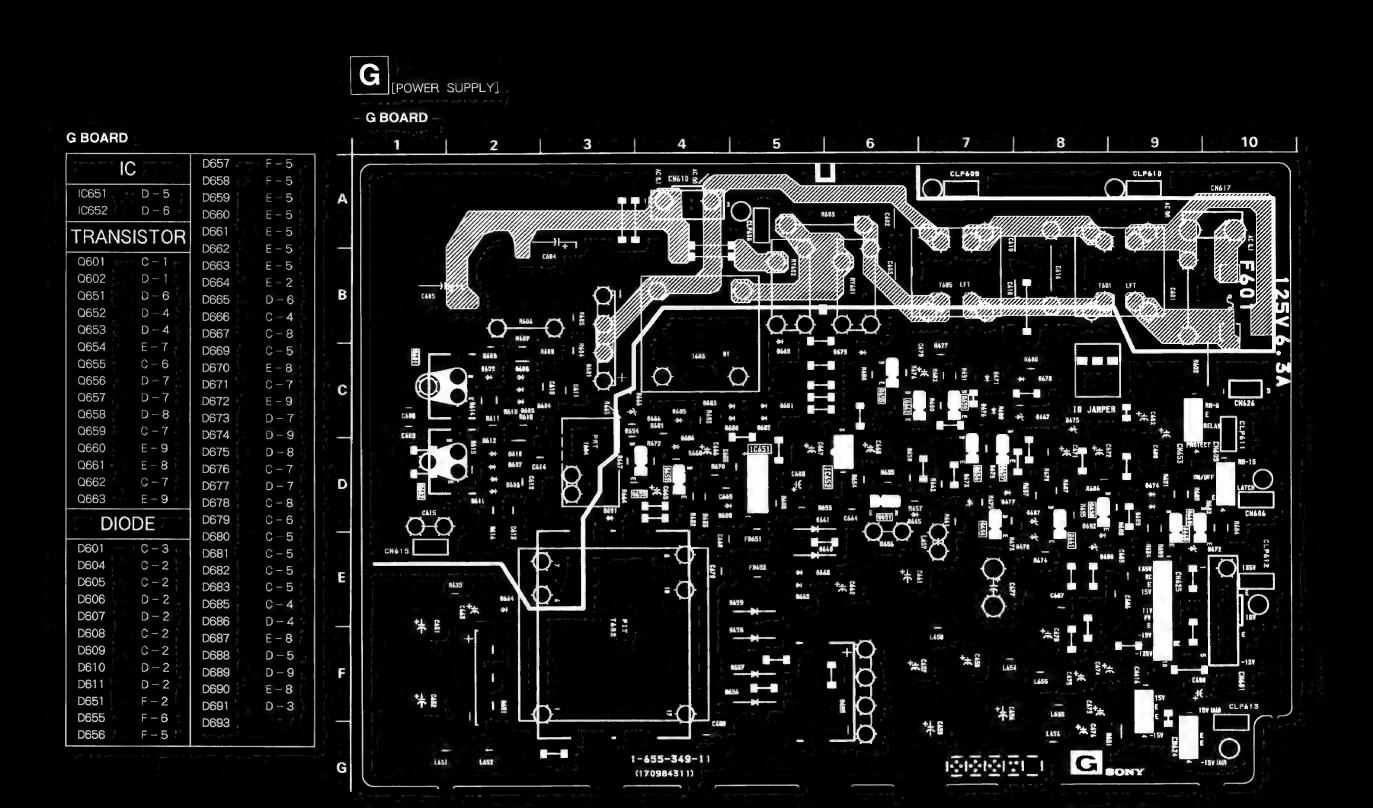
CN1346

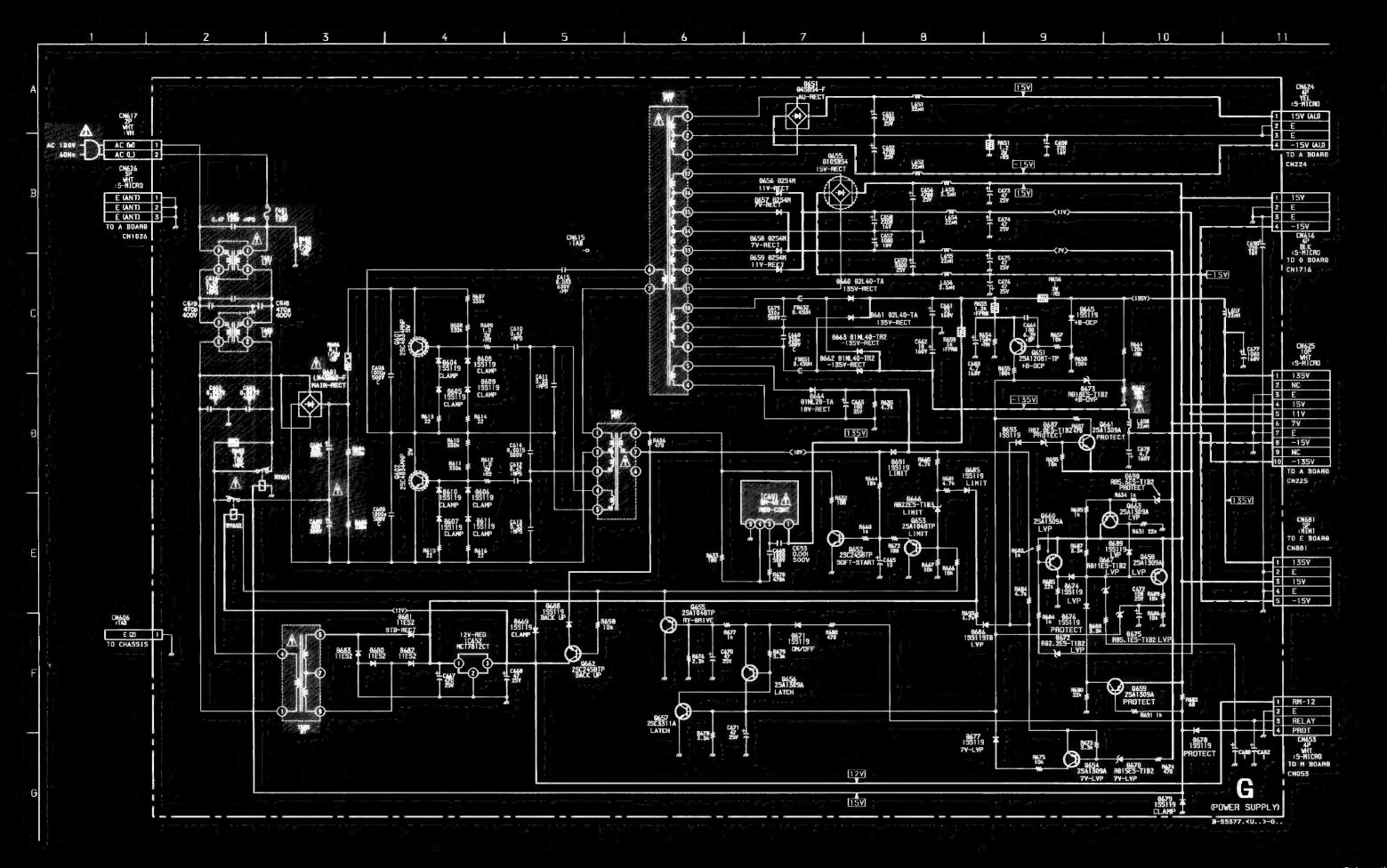
STEREO

£130 ₹

CN1347

POWER





**G BOARD IC VOLTAGE LIST** 

ALL VOLTAGES ARE IN V

IC651	1 135.4 3 2.6 4 8.9 5 GND
IC652	1 22.0 2 GND 3 12.0

### G BOARD TRANSISTOR VOLTAGE LIS

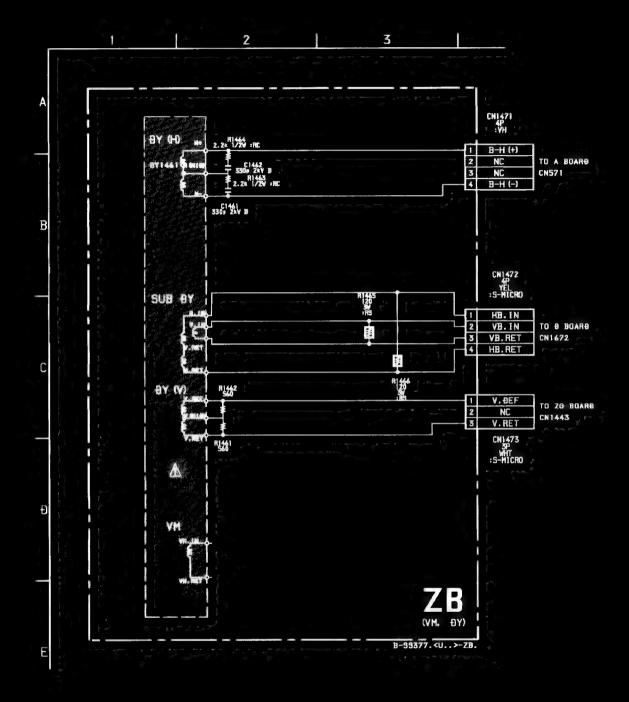
G BOARD TRANSISTOR VOLTAGE LIST								
	Е	С	В					
Q601	7 ×1.8	a co a o a comme	-3.9					
Q602	-1185	~1.8	-120.3					
Q651	135.5	0.2	135.4					
Q652	13.0	GND	15.1					
Q653	GND	15.1	0					
Q654	15.7	-2.0	15.7					
Q655	GND	0.2	0.8					
Q656	2.7	0.2	2.7					
Q657	GND	2.7	0.2					
Q658	15.0	8.2	148					
Q659	15.0	15.3	14.6					
Q660	15.0	15.3	14.6					
Q661	11.0	0.2	115					
Q662	12.0	12.1	11.4					
Q663	15.0	15.3	14.6					

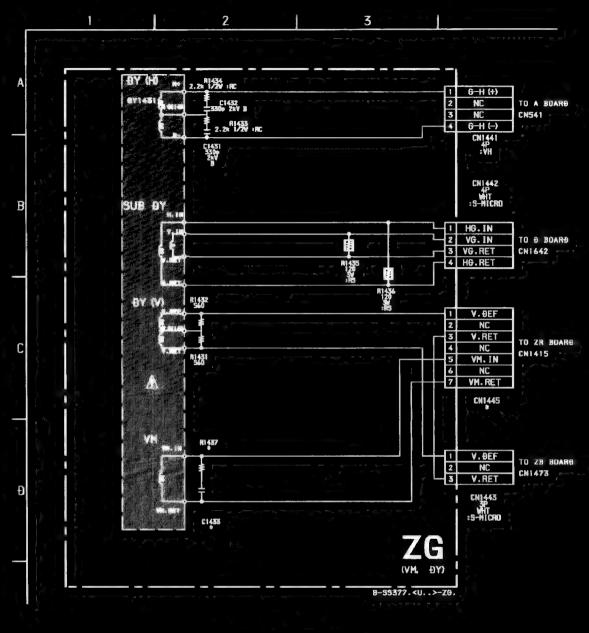
Schematic diagrams

Schematic diagrams

ZB ZG ZR boards →

80

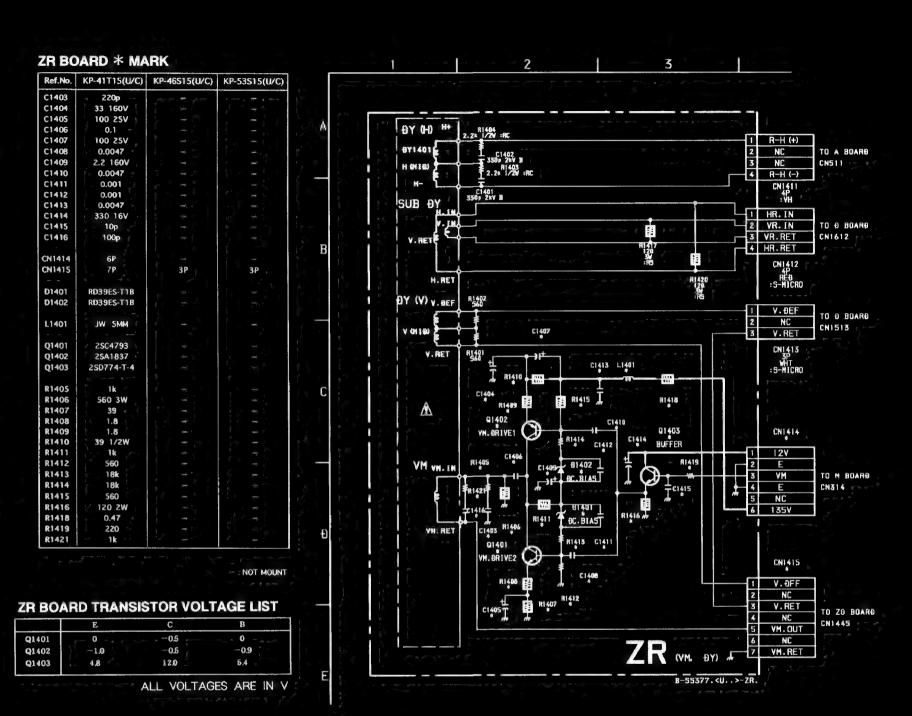




### ZG BOARD \* MARK

Ref.No.	KP-41T15(U/C)	KP-46S15(U/C)	KP-53\$15(U/C)
C1433	100p	-	
CN1445	7P	3P	3P
R1437	1k		- **

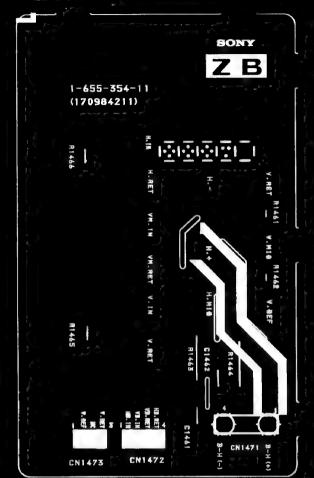
: NOT MOUNT



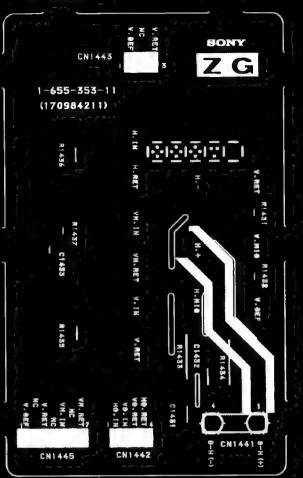
ALL VOLTAGES ARE IN V



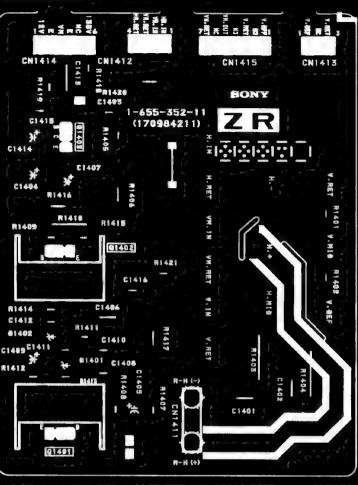
### ZB BOARD -



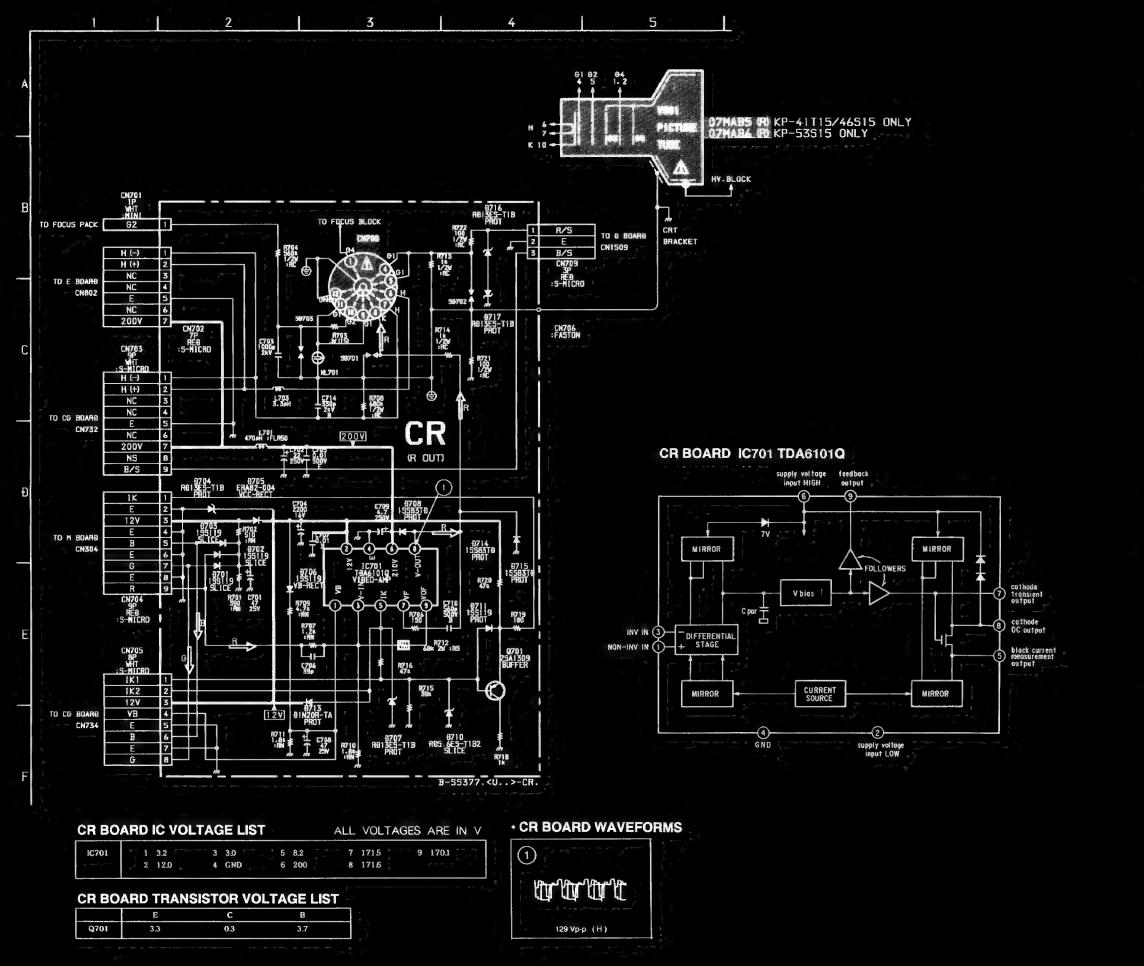
### ZG BOARD -

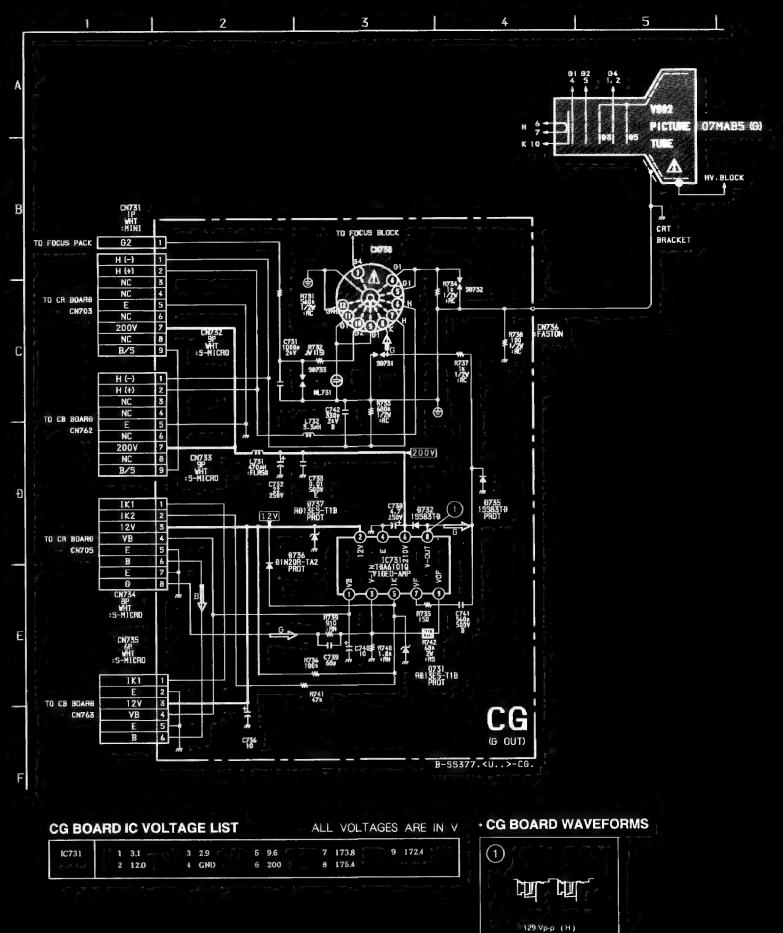


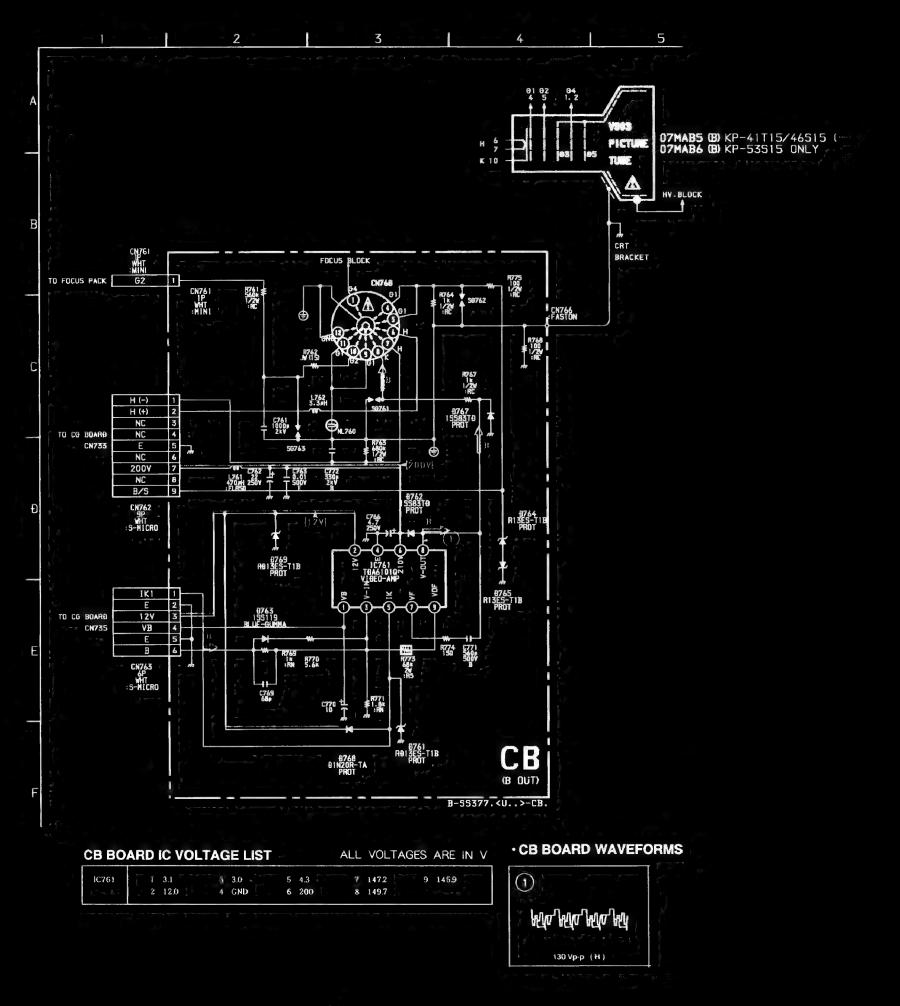
### ZR BOARD -



87 —

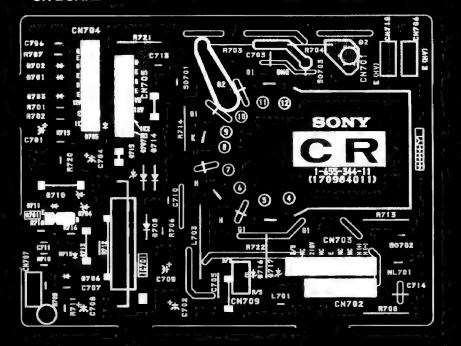


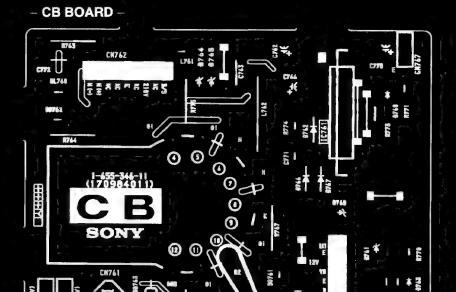




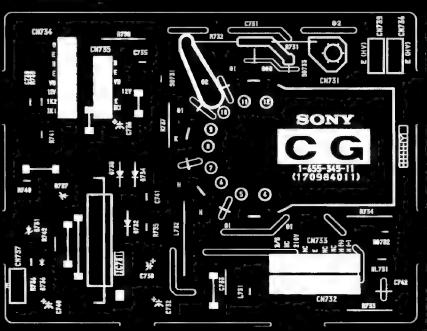


- CR BOARD



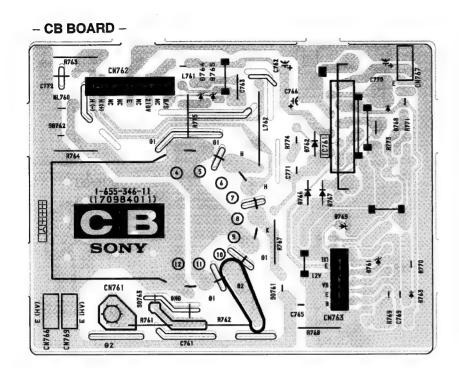


CG BOARD -

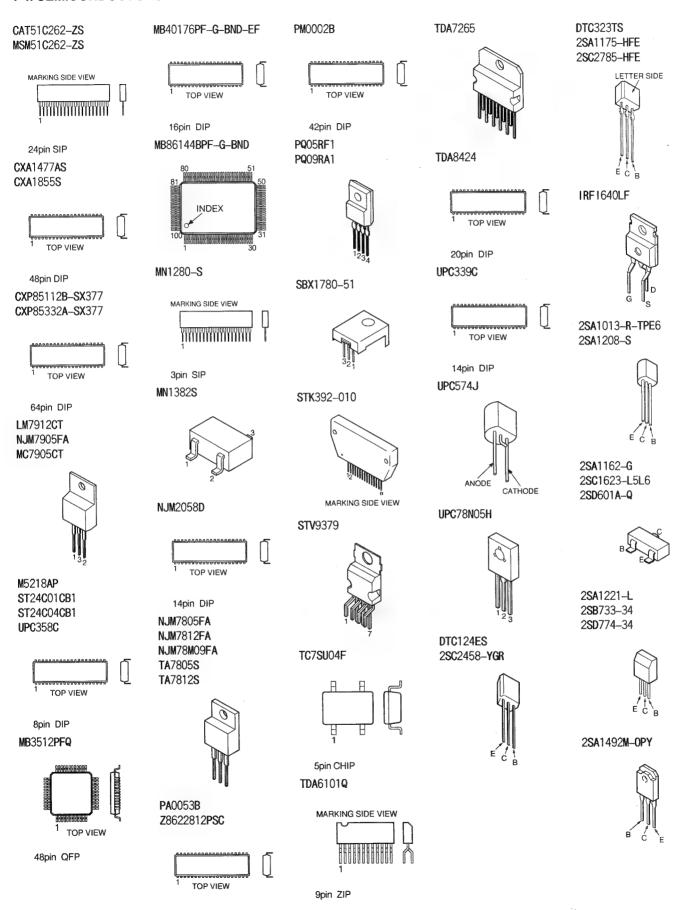


Schematic diagrams

89.43 63.43



### 4-4. SEMICONDUCTORS



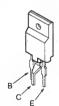
18pin DIP

2SA1837 2SC4793 2SD2348 (LBSONY-2) B C E 2SB649A-C 2SC2688-LK

LETTER SIDE

2SC2878-AB

2SC4632LS-CB7 2SD1887-CA



2SC4834M



D10SBS4-F D4SBS4-F LN4SB60-F

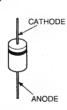


D1N2OR ERA85-009 ERC91-02TP11 RD10ESB2 RD11ESB2 RD13ESB2 RD15ESB2 RD18ESB2 RD2.0ESB2 RD2.2ESB2

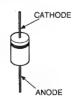
RD15ESB2 RD18ESB2 RD2. 0ESB2 RD2. 2ESB2 RD2. 2ESB2 RD22ESB3 RD24ESB RD3. 3ESB2 RD3. 9ESB2 RD3. 9ESB2 RD5. 1ESB1 RD5. 1ESB1 RD5. 6ESB1 RD5. 6ESB2 RD8. 2ESB2 RD9. 1ESL 11ES2 1SS119-25

CATHODE ANODE

D1NL40-TR2 D2L40-TA EL1Z ERD28-08S GP08D RGP02-20EL-6394 1SS83



D2S4MF



D8LC40-F



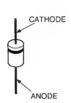
DAN202K



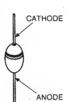
DAP202K



ERC06-15S ERC91-02 RU-1C



ERC38-06 V09G



HVU359TRF MA110 1T363

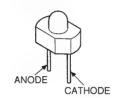


RD13M-B3 RD3.3M-B1 RD3.9M-B1 RD4.7M-B2 RD5.1M-B2

RD5.6M-B2



SLR-325VCT31



### **SECTION 5 EXPLODED VIEWS**

### NOTE:

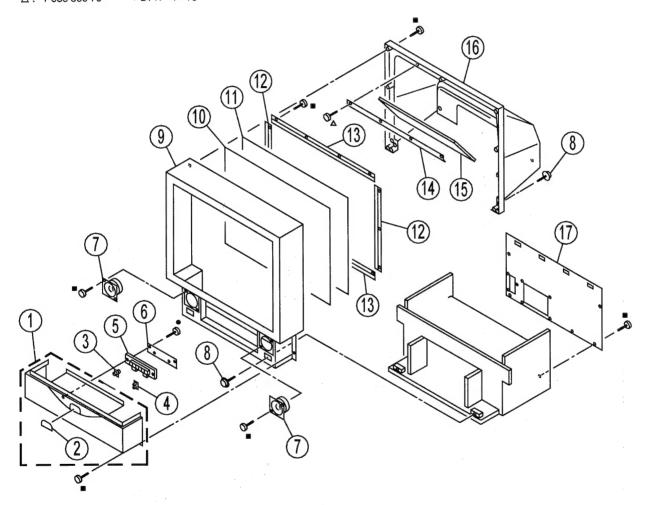
- Items with on part number and on des-cription are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque  $\Lambda$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

### 5-1. COVER (KP-41T15)

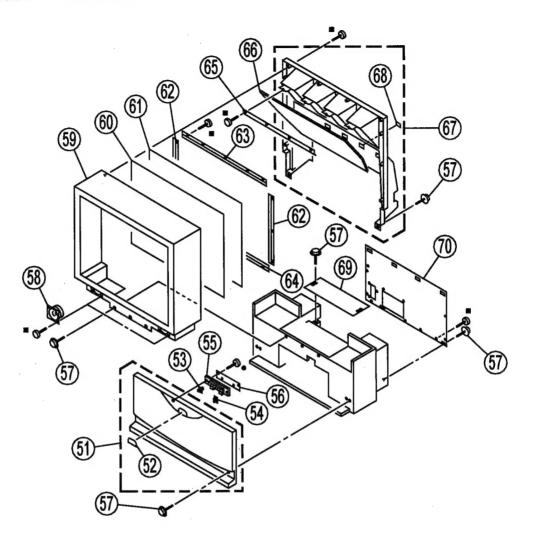
•:	7-685-648-79	+ BVTP	3×12
<b>i</b> :	7-685-663-79	+ BVTP	4×16
۸.	7-685-660-79	+ BVTP	4×10



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1 2 3 4 5	4-048-000-01 4-047-999-01	PANEL ASSY, CONTROL DOOR, CONTROL FILTER, REMOTE GUIDE, LIGHT, LED BUTTON, MULTI	2	11 12 13 14 15	4-047-943-11 4-036-092-01 4-036-091-31 *4-037-351-01 4-047-861-01	HOLDER (S), SCREEN HOLDER (L), SCREEN HOLDER, MIRROR	
6 7 8 9	1-504-785-11 4-041-164-11 X-4032-546-1	SCREW (4X20), TAPPING		16 17	*X-4032-607-1 *4-047-837-01	COVER ASSY, MIRROR PLATE (41), REAR	

### 5-2. COVER (KP-46S15/53S15)

●: 7-685-648-79 + BVTP 3×12 ■: 7-685-663-79 + BVTP 4×16



REF.N	O. PART NO.	DESCRIPTION	REMARK	REF. NO	. PART NO.	DESCRIPTION	REMARK
51 52 53 54 55	X-4032-614-1 4-048-000-01 4-047-999-01 4-047-998-01 4-048-001-01	GRILLE ASSY, SPEAKER DOOR, CONTROL FILTER, REMOTE GUIDE, LIGHT, LED BUTTON, MULTI	152	64 65 66	*4-048-159-21 *4-048-159-31 4-036-092-01 4-048-181-01 4-048-182-01	HOLDER (L), SCREEN (KP-46S15) HOLDER (L), SCREEN (KP-53S15) HOLDER (S), SCREEN MIRROR (53) (KP-53S15) MIRROR (46'') (KP-46S15)	
56 57 58 59	*A-1372-099-A 4-041-164-11 1-504-785-11 X-4032-617-1 X-4032-618-1	HA BOARD, COMPLETE SCREW (4X20), TAPPING SPEAKER (10CM) BEZNET ASSY (KP-46S15) BEZNET ASSY (KP-53S15)		67 68 69	*X-4032-619-1 *X-4032-620-1 4-048-150-01 *4-048-160-01 *4-048-161-01	CAP, HOLE PLATE, SHIELD (KP-46S15)	168 168
60 61	4-036-466-11 4-037-360-11 4-036-469-11 4-048-205-11	PLATE (L), DIFFUSION (KP-53S15) PLATE (L), DIFFUSION (KP-46S15) PLATE (F), DIFFUSION (KP-53S15) PLATE (F), DUFFUSION (KP-46S15)	}	70	*4-048-168-01 *4-048-169-01	PLATE, REAR (KP-53S15) PLATE, REAR (KP-46S15)	
62 63	*4-048-152-01 *4-048-152-11 *4-048-159-01 *4-048-159-11	HOLDER (S), SCREEN (KP-46S15) HOLDER (S), SCREEN (KP-53S15) HOLDER (L), SCREEN (KP-46S15) HOLDER (L), SCREEN (KP-53S15)					



Les composants identifies par une trame et une marque \( \Lambda \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R995 R996 R997 R998 R999	1-216-677-11 1-208-814-11 1-216-065-00 1-216-073-00 1-216-051-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	12K 0. 22K 0. 4.7K 5% 10K 5% 1.2K 5%	50% 1/10W 50% 1/10W 1/10W 1/10W 1/10W		C1802 C1803 C1805 C1806 C1807	1-126-964-11 1-163-809-11 1-163-809-11 1-163-127-00 1-163-809-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10MF 0.047MF 0.047MF 270PF 0.047MF	20% 10% 10% 5% 10%	50V 25V 25V 50V 25V
SG801	<spai< td=""><td>RK GAP&gt; GAP, SPARK</td><td></td><td></td><td></td><td>C1808 C1809 C1810 C1811 C1812</td><td>1-163-809-11 1-126-940-11 1-126-940-11 1-163-809-11 1-163-809-11</td><td>CERAMIC CHIP BLECT BLECT CERAMIC CHIP CERAMIC CHIP</td><td>0.047MF 330MF 330MF 0.047MF 0.047MF</td><td>10% 20% 20% 10% 10%</td><td>25V 16V 16V 25V 25V</td></spai<>	RK GAP> GAP, SPARK				C1808 C1809 C1810 C1811 C1812	1-163-809-11 1-126-940-11 1-126-940-11 1-163-809-11 1-163-809-11	CERAMIC CHIP BLECT BLECT CERAMIC CHIP CERAMIC CHIP	0.047MF 330MF 330MF 0.047MF 0.047MF	10% 20% 20% 10% 10%	25V 16V 16V 25V 25V
1802 1803 A	<trai 1-437-209-11 1-427-980-11</trai 	NSFORMER> TRANSFORMER A TRANSFORMER, TRANSFORMER	SSY, FLYB Horizonta Ferrite (	ACK (MX-26 L DRIVE LOT)	31/A4S)	C1813 C1814 C1816 C1817 C1818	1-163-275-11 1-163-809-11 1-163-117-00 1-163-117-00 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.047MF 100PF 100PF 0.047MF	5% 10% 5% 5% 10%	50V 25V 50V 50V 25V
*****	************* *A-1346-296-A 4-382-854-11	D BOARD, COMP	**************************************	**********	******	C1819 C1820 C1821 C1822 C1823	1-124-903-11 1-163-005-11 1-124-902-00 1-163-005-11 1-124-903-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT	1MF 470PF 0.47MF 470PF 1MF	20% 10% 20% 10% 20%	50V 50V 50V 50V 50V
	<cap.< td=""><td>ACITOR&gt;</td><td></td><td></td><td>16V</td><td>C1825 C1826</td><td>1-126-967-11 1-126-967-11 1-163-809-11</td><td>BLECT BLECT CERAMIC CHIP</td><td>47MF 47MF 0.047MF</td><td>20% 20% 20% 10%</td><td>50V 50V 50V 25V 25V</td></cap.<>	ACITOR>			16V	C1825 C1826	1-126-967-11 1-126-967-11 1-163-809-11	BLECT BLECT CERAMIC CHIP	47MF 47MF 0.047MF	20% 20% 20% 10%	50V 50V 50V 25V 25V
C1503 C1504 C1505 C1506	1-126-768-11 1-164-232-11 1-126-768-11 1-136-177-00 1-102-228-00	CERAMIC CHIP ELECT FILM CERAMIC	0.01MF 2200MF 1MF 470PF	10% 20% 5% 10%	50V 16V 50V 500V	C1829 C1830 C1831 C1832	1-163-809-11 1-163-809-11 1-126-940-11 1-126-940-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT	0.047MF 0.047MF 330MF 330MF	10% 10% 20% 20%	25V 25V 16V 16V
C1507 C1508 C1509 C1510 C1511	1-164-232-11 1-163-117-00 1-124-122-11 1-137-398-11 1-137-423-11	CBRAMIC CHIP CERAMIC CHIP ELECT FILM FILM	0.01MF 100PF 100MF 0.068MF 0.15MF	10% 5% 20% 10% 10%	50V 50V 50V 100V 100V	C1834 C1835 C1836	1-163-809-11 1-163-809-11 1-163-809-11 1-163-809-11 1-164-489-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.047MF 0.047MF 0.047MF	10% 10% 10% 10% 10%	25V 25V 25V 25V 16V
C1513 C1514 C1515	1-137-423-11 1-163-109-00 1-163-031-11 1-163-031-11 1-136-177-00	FILM CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP FILM	0.15MF 47PF 0.01MF 0.01MF 1MF	10% 5% 5%	100V 50V 50V 50V 50V	1 01000	1-124-122-11 1-124-122-11 1-124-903-11 1-126-967-11 1-163-117-00 1-163-117-00	C1 CCB	10010	208/	50V 50V 50V 50V
C1517 C1551 C1603 C1604 C1605	1-163-125-00 1-126-964-11 1-163-117-00 1-163-117-00 1-163-117-00	CERAMIC CHIP BLECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 10MF 100PF 100PF 100PF	5% 20% 5% 5%	50V 50V 50V 50V 50V	C1844 C1845	1-163-117-00 1-163-117-00 1-126-967-11 1-163-809-11 1-163-809-11	ELECT CERAMIC CHIP	47MF 0.047MF	5% 5% 20% 10% 10%	50V 50V 50V 25V 25V
C1606 C1607 C1608 C1611	1-163-117-00 1-163-117-00 1-163-117-00 1-124-122-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	100PF 100PF 100PF 100MF	5% 5% 5% 20%	50V 50V 50V 50V	C1847 C1848 C1849 C1850	1-163-809-11 1-163-809-11 1-124-122-11 1-124-122-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT	0.047MF 0.047MF 100MF 100MF	10% 10% 20% 20%	25V 25V 50V 50V
C1612 C1613 C1615 C1617 C1619	1-124-122-11 1-104-665-11 1-126-967-11 1-104-664-11	ELECT ELECT ELECT ELECT ELECT	100MF 100MF 100MF 47MF 47MF	20% 20% 20% 20% 20%	25V 50V 25V 50V 25V	C1851 C1852 C1853 C1854 C1855	1-137-399-11 1-124-122-11 1-137-378-11 1-124-927-11 1-124-903-11	FILM ELECT FILM ELECT ELECT	0.1MF 100MF 0.22MF 4.7MF 1MF	5% 20% 5% 20% 20%	50V 50V 50V 50V 50V
C1620 C1622 C1701 C1702	1-104-664-11 1-126-935-11	ELECT ELECT ELECT CERAMIC CHIP	47MF 47MF 470MF	20% 20% 20% 10%	25V 16V 25V	C1856 C1857 C1858	1-104-665-11 1-124-122-11 1-163-809-11 1-163-809-11	ELECT ELECT CERAMIC CHIP CERAMIC CHIP		20% 20% 10%	25V 50V 25V 25V
C1703 C1704 C1705	1-163-099-00 1-163-125-00 1-163-099-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	18PF 220PF 18PF	5% 5% 5%	50V 50V	C1859 C1860 C1861 C1862 C1863	1-163-809-11 1-163-809-11 1-124-122-11 1-124-903-11 1-136-173-00	CERAMIC CHIP CERAMIC CHIP ELECT ELECT FILM		10% 20% 20% 5%	25V 50V 50V 50V
C1709 C1723 C1724 C1801	1-163-031-11 1-163-117-00 1-163-117-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.01MF 100PF	5% 5% 20%	50V 50V 50V 50V	C1864 C1865 C1866	1-124-903-11 1-124-903-11 1-126-967-11	ELECT ELECT ELECT	1MF 1MF 47MF	20% 20% 20%	50V 50V 50V

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \(\hat{\Lambda}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
	DUCTOR CHIP>		CN1756*1-564-508-11	PLUG, CONNECTOR 4P PLUG, CONNECTOR 5P PLUG, CONNECTOR 13P	
CJ1 1-216-295-00 CJ2 1-216-295-00 CJ3 1-216-295-00 CJ4 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		1	ODE>	
CJ5 1-216-295-00 CJ6 1-216-295-00 CJ7 1-216-295-00 CJ8 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1501 8-719-908-03 D1502 8-719-109-89 D1503 8-719-908-03 D1505 8-719-109-88 D1551 8-719-109-72	D DIODE RD5.6ESB2 DIODE GPO8D DIODE RD5.6ESB1	
CJ9 1-216-295-00 CJ10 1-216-295-00	CONDUCTOR, CHIP		D1552 8-719-911-19	9 DIODE 1SS119-25 9 DIODE 1SS119-25	
CJ11 1-216-295-00 CJ12 1-216-295-00 CJ13 1-216-295-00 CJ16 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1601 8-719-908-03 D1602 8-719-908-03 D1603 8-719-908-03	3 DIODE GPO8D 3 DIODE GPO8D 3 DIODE GPO8D	
CJ17 1-216-295-00 CJ18 1-216-295-00	CONDUCTOR, CHIP		D1604 8-719-908-03 D1803 8-719-911-19 D1812 8-719-911-19	3 DIODE GP08D 9 DIODE 1SS119-25 9 DIODE 1SS119-25	
CJ19 1-216-295-00 CJ20 1-216-295-00 CJ21 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1814 8-719-911-19 D1825 8-719-911-19	9 DIODE 1SS119-25	
CJ22 1-216-295-00 CJ23 1-216-295-00	CONDUCTOR, CHIP		D1826 8-719-911-1 D1827 8-719-109-6 D1931 8-719-110-6	B DIODE RD3.6ESB1	
CJ24 1-216-295-00 CJ25 1-216-295-00 CJ26 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1932 8-719-110-6 D1934 8-719-110-6	O DIODE RD24ESB	
CJ27 1-216-295-00 CJ28 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP		D1935 8-719-110-6 D1936 8-719-110-6 D1937 8-719-110-6	O DIODE RD24ESB	
CJ29 1-216-295-00 CJ30 1-216-295-00 CJ31 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1942 8-719-110-6 D1945 8-719-110-6	O DIODE RD24ESB	
CJ34 1-216-295-00 CJ35 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP		D1946 8-719-110-6 D1947 8-719-110-6 D1948 8-719-110-3	O DIODE RD24ESB	
CJ36 1-216-295-00 CJ37 1-216-295-00 CJ38 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1949 8-719-110-6 D1951 8-719-110-3	O DIODE RD24ESB 6 DIODE RD13ESB2	
CJ39 1-216-295-00 CJ42 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP		D1953 8-719-110-3 D1954 8-719-110-3		
CJ43	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP			USE> 1 PUSE, GLASS TUBE (3.15	A/125V)
CJ47 1-216-295-00 CJ48 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP		1-533-223-1 F1602A 1-532-745-1	1 HOLDER, FUSE; F1601   FUSE, GLASS TUBE (3.15   HOLDER, FUSE; F1602	
CJ50 1-216-295-00 CJ51 1-216-295-00 CJ53 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		4		
CJ54 1-216-295-00 CJ55 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP		IC1501 8-759-192-7 IC1601 8-749-010-8	1 IC STV9379	
CJ57 1-216-295-00 CJ58 1-216-295-00 CJ59 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		IC1602 8-749-010-8 IC1701 8-752-861-5 IC1702 8-759-041-5	8 IC STK392-010 7 IC CXP85112B-613S	
CJ60 1-216-295-00 CJ62 1-216-295-00 CJ63 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		IC1801 8-759-327-5 IC1802 8-759-327-5 IC1803 8-759-012-6	1 IC PA0053B 7 IC MC7905CT	
<c01< td=""><td>NNECTOR&gt;</td><td></td><td>IC1804 8-759-231-5 IC1805 8-759-327-5</td><td>3 IC TA7805S 2 IC PM0002B</td><td></td></c01<>	NNECTOR>		IC1804 8-759-231-5 IC1805 8-759-327-5	3 IC TA7805S 2 IC PM0002B	
CN1513*1-564-506-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 3P		IC1806 8-759-327-5 IC1807 8-759-929-6 IC1808 8-759-701-7	5 IC LM7912CT	
CN1612*1-564-507-11 CN1642*1-564-507-11	PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P		IC1809 8-759-327-5 IC1931 8-759-711-2	2 IC PM0002B	
	4		IC1932 8-759-711-2	8 IC NJM2058D	